

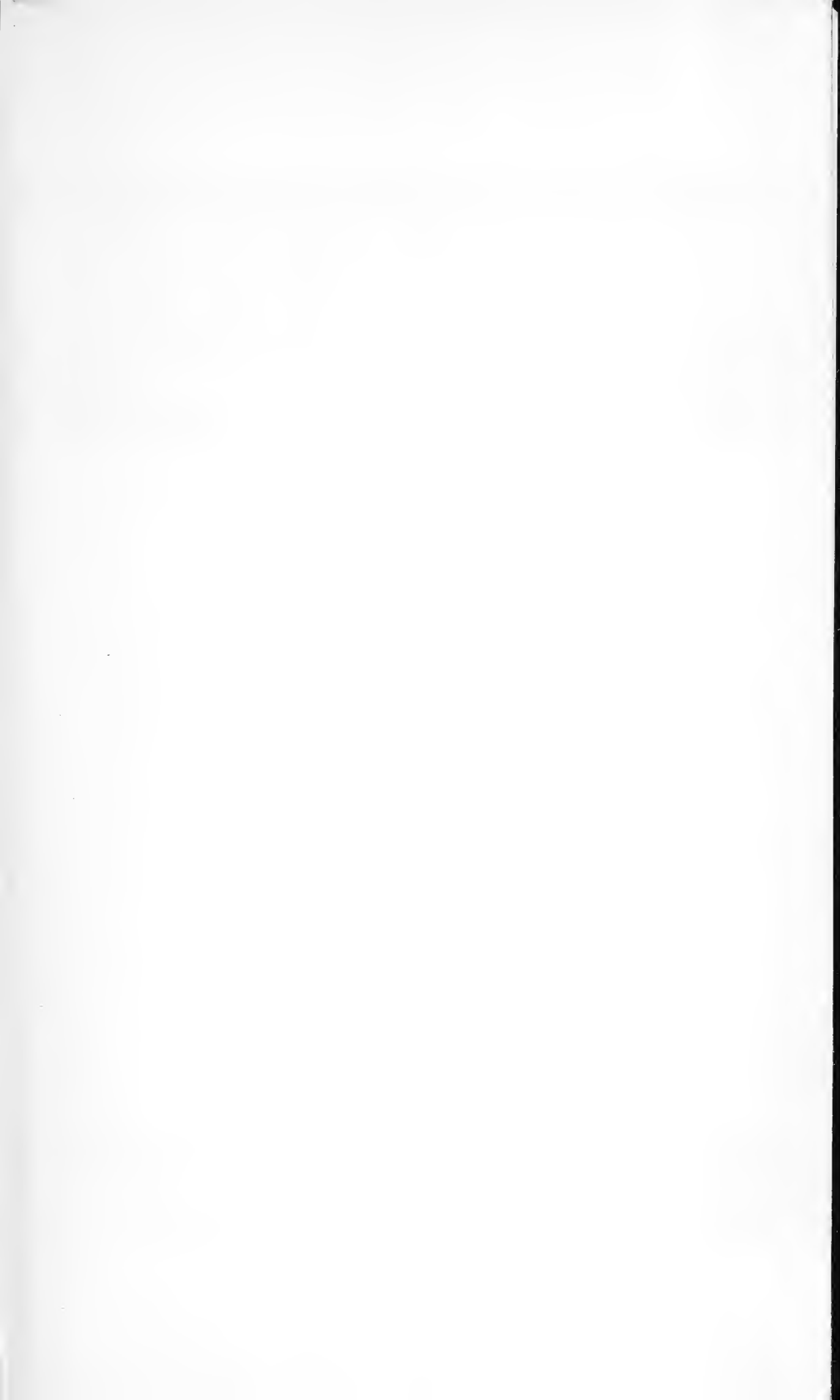


Bryn Mawr  
College  
Library









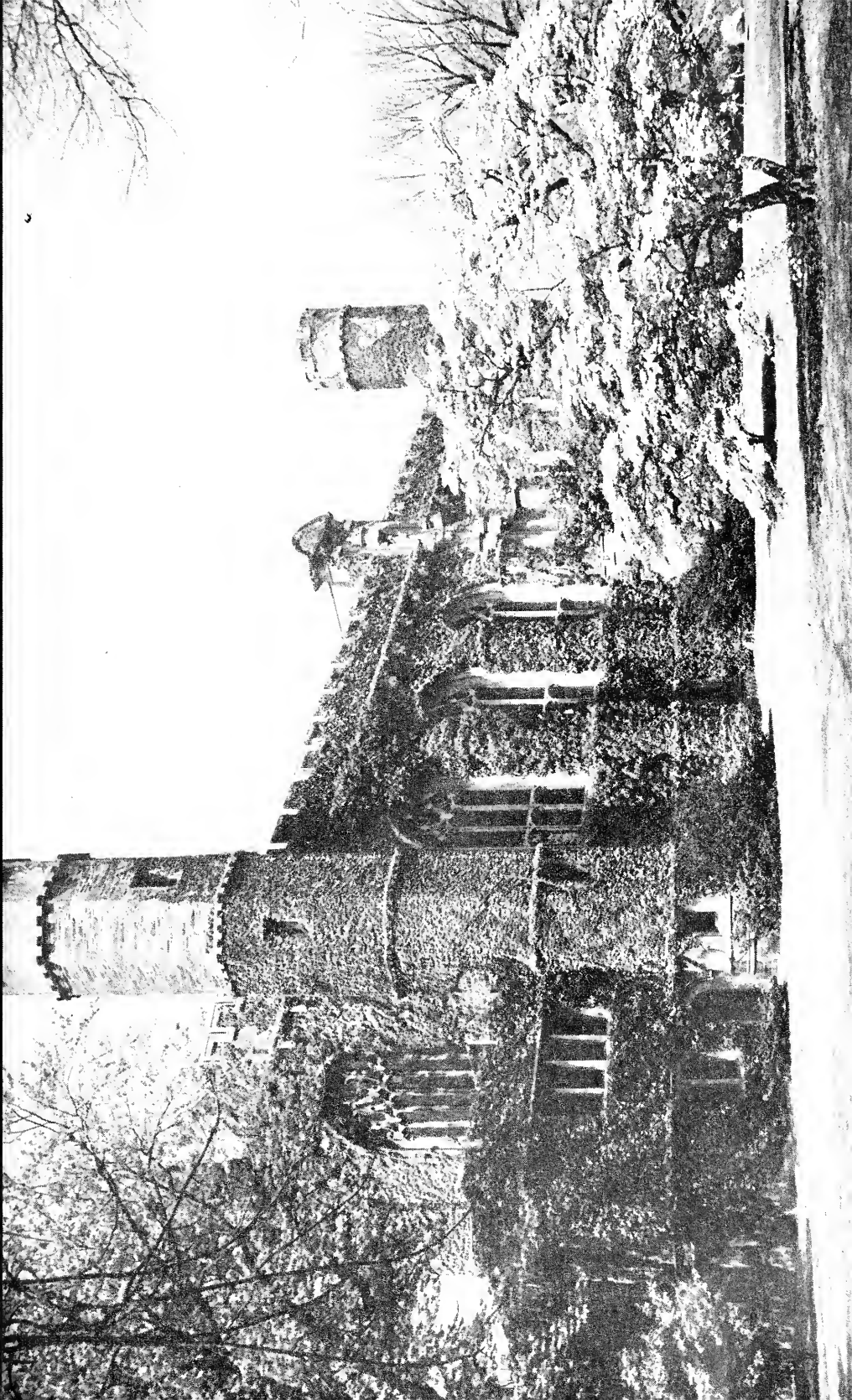


# BRYN MAWR

COLLEGE CALENDAR

THE GRADUATE SCHOOL 1959-1960

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# Bryn Mawr College Calendar

THE GRADUATE SCHOOL

ISSUE FOR THE SESSION OF  
1959 • 1960



JULY 1959

Volume LII

Number 2

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# College Calendar

## The Graduate School 1959-1960

### FIRST SEMESTER

1959

- September 23.* Graduate Center open to resident graduate students
- September 24.* Registration period for graduate students begins  
Final date for filing application for admission
- September 28.* Work of 75th academic year begins at 9:00 A.M.  
Convocation at 4:30 P.M.
- October 1.* Registration period for graduate students ends
- October 17.* German examinations for undergraduates, M.A. and Ph.D. candidates
- October 24.* Russian examinations for undergraduates, M.A. and Ph.D. candidates
- October 31.* French examinations for undergraduates, M.A. and Ph.D. candidates
- November 7.* Spanish and Italian examinations for undergraduates, M.A. and Ph.D. candidates  
Statistics examinations for M.A. candidates
- November 25.* Thanksgiving holiday begins after last class
- November 30.* Thanksgiving holiday ends at 9 A.M.
- December 17.* Christmas vacation begins at 12:45 P.M.

1960

- January 5.* Christmas vacation ends at 9 A.M.
- January 9.* German and Russian examinations for M.A. and Ph.D. candidates
- January 15.* Last day of lectures



- January* 16. French examinations for Seniors conditioned, M.A. and Ph.D. candidates
- January* 18. Collegiate examinations begin
- January* 23. Spanish and Italian examinations for Seniors conditioned, M.A. and Ph.D. candidates  
Statistics examinations for M.A. candidates
- January* 27. Registration period for graduate students begins
- January* 28. Collegiate examinations end

SECOND SEMESTER

- February* 1. Work of the second semester begins at 9 A.M.
- February* 3. Registration period for graduate students ends
- March* 24. Spring vacation begins after last class
- April* 5. Spring vacation ends at 9 A.M.
- April* 9. German examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1961
- April* 11. Ph.D. dissertations in all fields except experimental science and mathematics must be submitted to the Graduate School office
- April* 16. Russian examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1961
- April* 23. French examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1961
- April* 30. Statistics examinations for M.A. candidates for 1961
- May* 2. Ph.D. dissertations in experimental science and mathematics must be submitted to the Graduate School office
- May* 7. Spanish and Italian examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1961
- May* 13. Last day of lectures
- May* 16. Collegiate examinations begin
- May* 27. Collegiate examinations end
- May* 31. Conferring of degrees and close of 75th academic year

1959	1960	1961
S M T W T F S	S M T W T F S	S M T W T F S
JULY	JANUARY	JANUARY
..... 1 2 3 4	..... 1 2	1 2 3 4 5 6 7
5 6 7 8 9 10 11	3 4 5 6 7 8 9	8 9 10 11 12 13 14
12 13 14 15 16 17 18	10 11 12 13 14 15 16	15 16 17 18 19 20 21
19 20 21 22 23 24 25	17 18 19 20 21 22 23	22 23 24 25 26 27 28
26 27 28 29 30 31 ..	24 25 26 27 28 29 30	29 30 31 .....
	31 .....	
AUGUST	FEBRUARY	FEBRUARY
..... 1	.. 1 2 3 4 5 6	..... 1 2 3 4
2 3 4 5 6 7 8	7 8 9 10 11 12 13	5 6 7 8 9 10 11
9 10 11 12 13 14 15	14 15 16 17 18 19 20	12 13 14 15 16 17 18
16 17 18 19 20 21 22	21 22 23 24 25 26 27	19 20 21 22 23 24 25
23 24 25 26 27 28 29	28 29 .....	26 27 28 .....
30 31 .....		
SEPTEMBER	MARCH	MARCH
.... 1 2 3 4 5	.... 1 2 3 4 5	..... 1 2 3 4
6 7 8 9 10 11 12	6 7 8 9 10 11 12	5 6 7 8 9 10 11
13 14 15 16 17 18 19	13 14 15 16 17 18 19	12 13 14 15 16 17 18
20 21 22 23 24 25 26	20 21 22 23 24 25 26	19 20 21 22 23 24 25
27 28 29 30 .....	27 28 29 30 31 .....	26 27 28 29 30 31 ..
OCTOBER	APRIL	APRIL
..... 1 2 3	..... 1 2	..... 1
4 5 6 7 8 9 10	3 4 5 6 7 8 9	2 3 4 5 6 7 8
11 12 13 14 15 16 17	10 11 12 13 14 15 16	9 10 11 12 13 14 15
18 19 20 21 22 23 24	17 18 19 20 21 22 23	16 17 18 19 20 21 22
25 26 27 28 29 30 31	24 25 26 27 28 29 30	23 24 25 26 27 28 29
		30 .....
NOVEMBER	MAY	MAY
1 2 3 4 5 6 7	1 2 3 4 5 6 7	.. 1 2 3 4 5 6
8 9 10 11 12 13 14	8 9 10 11 12 13 14	7 8 9 10 11 12 13
15 16 17 18 19 20 21	15 16 17 18 19 20 21	14 15 16 17 18 19 20
22 23 24 25 26 27 28	22 23 24 25 26 27 28	21 22 23 24 25 26 27
29 30 .....	29 30 31 .....	28 29 30 31 .....
DECEMBER	JUNE	JUNE
.... 1 2 3 4 5	..... 1 2 3 4	..... 1 2 3
6 7 8 9 10 11 12	5 6 7 8 9 10 11	4 5 6 7 8 9 10
13 14 15 16 17 18 19	12 13 14 15 16 17 18	11 12 13 14 15 16 17
20 21 22 23 24 25 26	19 20 21 22 23 24 25	18 19 20 21 22 23 24
27 28 29 30 31 .....	26 27 28 29 30 .....	25 26 27 28 29 30 ..

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# Introduction

**B**RYN MAWR COLLEGE was founded as an institution of higher education for women by Dr. Joseph Taylor of Burlington, New Jersey, a member of the Society of Friends. The charter was granted by the Commonwealth of Pennsylvania in 1880. The College opened in 1885 with the first Graduate School for women. The first Ph.D. was awarded in 1888, a year before the A.B. was conferred on students of the first undergraduate class. The Graduate School has been open since the thirties to men as well as women.

Graduate study is offered in every fully organized department. The College provides special opportunities to graduate students for study and research in small seminars under the guidance of members of the faculty. Graduate work leading to the M.A. and the Ph.D. is offered in the fields of modern literatures, the classics, art and archaeology, music, history and social sciences, philosophy, mathematics, psychology and the natural sciences. A two-year course in Social Work and Social Research leads to the degree of Master of Social Service; the Ph.D. is also awarded in this Department.

# The Trustees of Bryn Mawr College

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*Alumnae Director, 1958-1963*

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MARION EDWARDS PARK, *by invitation*

*President Emeritus of Bryn Mawr College*

NANCY HOUGH SMITH, *by invitation*<sup>14</sup>

*President of the Alumnae Association*

# Standing Committees of the Board of Directors for 1959

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MRS. MCINTOSH  
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MRS. ALDRICH  
MRS. GORDAN  
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MRS. VINING

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MISS MCBRIDE, *Chairman*  
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MRS. INGERSOLL  
MRS. MCINTOSH  
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11. Mrs. Francis J. Stokes
12. Mrs. Ernest C. Savage
13. Mrs. Willard N. Boyden
14. Mrs. E. Baldwin Smith

# Faculty and Staff

ACADEMIC YEAR, 1959-1960

KATHARINE ELIZABETH McBRIDE, PH.D. (Bryn Mawr College),  
LL.D., L.H.D., Sc.D., *President of the College*

MARION EDWARDS PARK, PH.D. (Bryn Mawr College), LL.D.,  
*President Emeritus of the College*

ELEANOR A. BLISS, Sc.D. (Johns Hopkins University), Sc.D., *Dean  
of the Graduate School*

DOROTHY NEPPER MARSHALL, PH.D. (Bryn Mawr College), *Dean  
of the College*

ANNIE LEIGH BROUGHTON, M.A. (Bryn Mawr College), *Dean of  
Freshmen and Director of Admissions*<sup>1</sup>

MARGARET TYLER PAUL, A.B. (Bryn Mawr College), *Assistant to  
the President*

JANET MARGARET AGNEW, B.L.S., M.A. (University of Manitoba),  
*Librarian*

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of  
Physical Education*

ELIZABETH HUMESTON, M.D. (Cornell University), *College Physi-  
cian*

RHYS CARPENTER, PH.D. (Columbia University), LITT.D., *Pro-  
fessor Emeritus of Classical Archaeology*

REGINA KATHARINE CRANDALL, PH.D. (University of Chicago),  
*Professor Emeritus of English Composition*

GRACE MEAD ANDRUS DE LAGUNA, PH.D. (Cornell University),  
*Professor Emeritus of Philosophy*

MAX DIEZ, PH.D. (University of Texas), *Professor Emeritus of  
German Literature*

---

1. On part-time sabbatical leave for the year 1959-60.



- CHARLES GHEQUIERE FENWICK, PH.D. (Johns Hopkins University), LL.D., *Professor Emeritus of Political Science*
- GRACE FRANK, A.B. (University of Chicago), *Professor Emeritus of Old French*
- MYRA RICHARDS JESSEN, PH.D. (Bryn Mawr College), *Professor Emeritus of German*
- HELEN TAFT MANNING, PH.D. (Yale University), LL.D., *Professor Emeritus of History*
- CORNELIA LYNDE MEIGS, A.B. (Bryn Mawr College), *Professor Emeritus of English Composition*
- FRITZ MEZGER, PH.D. (University of Berlin), *Professor Emeritus of Germanic Philology*
- MARY HAMILTON SWINDLER, PH.D. (Bryn Mawr College), LL.D., *Professor Emeritus of Classical Archaeology*
- LILY ROSS TAYLOR, PH.D. (Bryn Mawr College), LITT.D., *Professor Emeritus of Latin*
- ANNA PELL WHEELER, PH.D. (University of Chicago), SC.D., *Professor Emeritus of Mathematics*
- MARY SUMMERFIELD GARDINER, PH.D. (Bryn Mawr College), *Professor of Biology, Acting Secretary of the Faculty, 1959-1961*
- HORACE ALWYNE, F.R.M.C.M. (Royal Manchester College of Music), *Professor Emeritus of Music and Visiting Professor*
- ERNST BERLINER, PH.D. (Harvard University), *Professor of Chemistry*
- L. JOE BERRY, PH.D. (University of Texas), *Professor of Biology*
- ELEANOR A. BLISS, SC.D. (Johns Hopkins University), SC.D., *Dean of the Graduate School and Professor of Biology*
- THOMAS ROBERT SHANNON BROUGHTON, PH.D. (Johns Hopkins University), *Professor of Latin*<sup>1</sup>
- SAMUEL CLAGGETT CHEW, PH.D. (Johns Hopkins University), LITT.D., *Professor Emeritus of English Literature and Visiting Professor*

---

1. On leave of absence and sabbatical leave for the years 1959-61.

- RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania),  
*Professor of Education and Psychology*
- FREDERICA DE LAGUNA, PH.D. (Columbia University), *Professor  
of Anthropology*<sup>1</sup>
- LINCOLN DRYDEN, PH.D. (Johns Hopkins University), *Professor  
of Geology*
- JOSÉ MARIA FERRATER MORA, *Licenciado en Filosofía* (University  
of Barcelona), *Professor of Philosophy*
- FELIX GILBERT, PH.D. (University of Berlin), *Professor of His-  
tory*<sup>2</sup>
- STEPHEN JOSEPH HERBEN, B.LITT., PH.D. (Princeton University),  
*Professor of English Philology*
- JOSHUA C. HUBBARD, PH.D. (Harvard University), *Professor of  
Economics*<sup>3</sup>
- AGI JAMBOR, M.A. (Royal Academy of Budapest), *Professor of  
Music and Director of Ensemble Groups*
- RICHMOND LATTIMORE, PH.D. (University of Illinois), LITT.D.,  
*Paul Shorey Professor of Greek*
- MARGUERITE LEHR, PH.D. (Bryn Mawr College), *Professor of  
Mathematics*
- BETTINA LINN, M.A. (Bryn Mawr College), *Margaret Kingsland  
Haskell Professor of English*
- ANGELINE HELEN LOGRASSO, PH.D. (Radcliffe College), *Professor  
of Italian*
- KATHERINE D. K. LOWER, PH.D. (University of Wisconsin), *Pro-  
fessor of Social Work and Social Research*
- GEDDES MACGREGOR, D.D., LL.D. (University of Edinburgh),  
D.PHIL. (Oxford), *D.ès L.* (University of Paris), *Rufus M.  
Jones Professor of Philosophy and Religion*
- BERTHE MARIE MARTI, PH.D. (Bryn Mawr College), *Professor of  
Latin*

---

1. On leave of absence for semester I, 1959-60.

2. On part-time sabbatical leave for the year 1959-60.

3. On sabbatical leave for the year 1959-60.

- AGNES KIRSOPP LAKE MICHELS, PH.D. (Bryn Mawr College), *Professor of Latin*
- WALTER C. MICHELS, PH.D. (California Institute of Technology), *Marion Reilly Professor of Physics*
- CHARLES MITCHELL, M.A., B.LITT. (Oxford University), *Richard M. Bernheimer Visiting Professor of History of Art*
- MILTON CHARLES NAHM, B.LITT., PH.D. (University of Pennsylvania), *Professor of Philosophy*
- MILDRED BENEDICT NORTHROP, PH.D. (Columbia University), *Professor of Economics*
- JANE MARION OPPENHEIMER, PH.D. (Yale University), *Professor of Biology*<sup>1</sup>
- JOHN C. OXTOBY, M.A. (University of California), *Professor of Mathematics*
- WILLIAM J. ROACH, PH.D. (University of Chicago), *Visiting Professor of Old French*
- CAROLINE ROBBINS, PH.D. (University of London), *Professor of History*
- PAUL SCHRECKER, PH.D. (University of Berlin), LL.D., *Visiting Professor of Philosophy*
- ALEXANDER COBURN SOPER, III, M.F.A., PH.D. (Princeton University), *Professor of History of Art*
- ARTHUR COLBY SPRAGUE, PH.D. (Harvard University), *Mary E. Garrett Alumnae Professor of English Literature*
- K. LAURENCE STAPLETON, A.B. (Smith College), *Professor of English and of Political Theory*
- ISABEL SCRIBNER STEARNS, PH.D. (Bryn Mawr College), *Professor of Philosophy*
- EDWARD H. WATSON, PH.D. (Johns Hopkins University), *Professor of Geology*
- ROGER HEWES WELLS, PH.D. (Harvard University), *Professor of Political Science*

---

1. On sabbatical leave for the year 1959-60.

MARY KATHARINE WOODWORTH, PH.D. (Bryn Mawr College),  
*Professor of English*

DOROTHY WYCKOFF, PH.D. (Bryn Mawr College), *Professor of  
Geology*

FRANCISCO AYALA, *Doctor en Derecho* (University of Madrid),  
*Professor-elect of Spanish*

MABEL LOUISE LANG, PH.D. (Bryn Mawr College), *Associate Pro-  
fessor and Professor-elect of Greek*<sup>1</sup>

PETER BACHRACH, PH.D. (Harvard University), *Associate Pro-  
fessor of Political Science*

MORTON SACHS BARATZ, PH.D. (Yale University), *Associate Pro-  
fessor of Economics*

WARNER B. BERTHOFF, PH.D. (Harvard University), *Associate  
Professor of English*<sup>2</sup>

MORTON EDWARD BITTERMAN, PH.D. (Cornell University), *Asso-  
ciate Professor of Psychology*

DONALD ROBERT BROWN, PH.D. (University of California), *Asso-  
ciate Professor of Psychology*

ROBERT SIMON DAVIDON, PH.D. (University of Pennsylvania),  
*Associate Professor of Psychology*<sup>3</sup>

FRANCES DE GRAAFF, PH.D. (University of Leyden), *Associate  
Professor of Russian, on joint appointment with Haverford  
College*

ARTHUR P. DUDDEN, PH.D. (University of Michigan), *Associate  
Professor of History*<sup>3</sup>

JAMES W. FOWLE, PH.D. (Harvard University), *Associate Profes-  
sor of History of Art*

ROBERT L. GOODALE, B.MUS. (Yale University), A.A.G.O., *Asso-  
ciate Professor of Music*

---

1. On leave of absence for the year 1959-60.

2. On partial leave of absence for the year 1959-60.

3. On sabbatical leave for the year 1959-60.

- ROSALIE C. HOYT, PH.D. (Bryn Mawr College), *Associate Professor of Physics*
- HERTHA KRAUS, PH.D. (University of Frankfurt), *Carola Woerishoffer Associate Professor of Social Work and Social Research*
- HUGUES LEBLANC, PH.D. (Harvard University), *Associate Professor of Philosophy*
- GERTRUDE C. K. LEIGHTON, LL.B. (Yale University), *Associate Professor of Political Science*<sup>1</sup>
- MACHTELD JOHANNA MELLINK, PH.D. (University of Utrecht), *Associate Professor of Classical Archaeology*
- JOHN R. PRUETT, PH.D. (Indiana University), *Associate Professor of Physics*
- BERNARD ROSS, M.S.S.A. (University of Pittsburgh), PH.D. (University of Michigan), *Associate Professor of Social Work and Social Research*
- EUGENE V. SCHNEIDER, PH.D. (Harvard University), *Associate Professor of Sociology*
- MARY MARGARET ZENDER, M.A. (Lawrence College), M.S.S. (Smith College), *Associate Professor of Social Work*
- GEORGE L. ZIMMERMAN, PH.D. (University of Chicago), *Associate Professor of Chemistry*
- FREDERIC C. CUNNINGHAM, JR., PH.D. (Harvard University), *Associate Professor-elect of Mathematics*
- WILLIAM C. LOERKE, M.F.A., PH.D. (Princeton University), *Associate Professor-elect of History of Art*
- MARIO MAURIN, PH.D. (Yale University), *Assistant Professor and Associate Professor-elect of French*<sup>2</sup>
- EDMUND V. MECH, PH.D. (Indiana University), M.S.S. (Bryn Mawr College), *Associate Professor-elect of Social Work and Social Research*
- CHRISTOPH E. SCHWEITZER, PH.D. (Yale University), *Associate Professor-elect of German*

---

1. On partial leave of absence for semester I, 1959-60.

2. On sabbatical leave for semester II, 1959-60.

- RAYMOND F. BETTS, *D.d'Univ.* (University of Grenoble), PH.D. (Columbia University), *Assistant Professor of History*
- ROBERT HAWES BUTMAN, M.A. (University of North Carolina), *Assistant Professor of English on the Theresa Helburn Fund, and on joint appointment with Haverford College*
- ALEXANDER CAMBITOGLOU, PH.D. (University of London), *Assistant Professor of Classical Archaeology*
- ROBERT L. CONNER, PH.D. (Indiana University), *Assistant Professor of Biology*
- MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*
- DAVID BONNELL GREEN, PH.D. (Harvard University), *Assistant Professor of English*
- MICHEL GUGGENHEIM, PH.D. (Yale University), *Assistant Professor of French*
- DAVID JOSEPH HERLIHY, PH.D. (Yale University), *Assistant Professor of History*
- MELVILLE T. KENNEDY, JR., PH.D. (Harvard University), *Assistant Professor of Political Science*
- SYLVIA W. KENNEY, PH.D. (Yale University), *Assistant Professor of Music*
- PHILIP KOCH, PH.D. (Harvard University), *Assistant Professor of French*
- GEORGE K. LEVINGER, PH.D. (University of Michigan), *Assistant Professor of Social Work and Social Research*
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- FRANK BRYANT MALLORY, PH.D. (California Institute of Technology), *Assistant Professor of Chemistry*
- JOSEPH VARIMBI, PH.D. (University of Pennsylvania), *Assistant Professor of Chemistry*
- CHARLES MILLER, PH.D. (California Institute of Technology), *Assistant Professor-elect of Physics*
- HUGO SCHMIDT, PH.D. (Columbia University), *Assistant Professor-elect of German*

- FRANCES BONDHUS BERLINER, PH.D. (Bryn Mawr College), *Part-time Lecturer in Chemistry*
- MICHEL MARIE FRANÇOIS BUTOR, *Licencié de Philosophie, D.E.S.Ph.* (University of Paris), *Visiting Lecturer in French*
- SEYMOUR FESHBACH, PH.D. (Yale University), *Visiting Lecturer in Psychology for Semester II*
- RICHARD C. GONZALEZ, PH.D. (University of Maryland), *Post-Doctoral Fellow in Psychology and Part-time Lecturer for Semester I*
- JEAN D. HARING, M.A. (Ohio State University), M.S.W. (University of Michigan), *Lecturer in Social Work and Social Research*
- EDWARD B. HARPER, PH.D. (Cornell University), *Lecturer in Sociology and Anthropology on joint appointment with Haverford College*
- WILLARD FAHRENKAMP KING, PH.D. (Brown University), *Lecturer in Spanish*
- GEORGE L. KLINE, PH.D. (Columbia University), *Lecturer in Russian and Philosophy*
- OLGA LANG, Graduate (University of Moscow), *Part-time Lecturer in Russian*
- PETER MADISON, PH.D. (Harvard University), *Visiting Lecturer in Psychology for Semester I*
- ETHEL W. MAW, M.S. (University of Pennsylvania), *Part-time Lecturer in Education*
- SUSAN MAXFIELD, M.S. (Syracuse University), *Director of Phebe Anna Thorne School and Part-time Lecturer in Education*
- LEO JOSEPH POSTMAN, PH.D. (Harvard University), *Visiting Lecturer in Psychology for Semester II*
- LAURA ESTABROOK ROMINE, M.A. (Columbia University), *Lecturer in Economics*
- HERMAN M. SOMERS, PH.D. (Harvard University), *Visiting Lecturer in Social Work and Social Research*
- RUTH OLIVER STALLFORT, M.S. (Simmons College School of Social Work), *Lecturer in Psychiatric Social Work*
- BURGHART WACHINGER, PH.D. (University of Munich), *Lecturer in German*
- JEANNE L. WERNTZ, PH.D. (University of Pennsylvania), *Part-time Lecturer in Social Research*

HENRY R. WINKLER, PH.D. (University of Chicago), *Visiting Lecturer in History*

MARVIN WOLFGANG, PH.D. (University of Pennsylvania), *Visiting Lecturer in Sociology and Anthropology*

ANN EVANS BERTHOFF, M.A. (Radcliffe College), *Part-time Instructor in English*

VIRGINIA G. LEBLANC, M.A. (Bryn Mawr College), *Part-time Instructor in French*

RAMONA T. LIVINGSTON, A.B. (William Jewell College), *Instructor in English*

MARY MAPLES, PH.D. (Bryn Mawr College), *Instructor in History on the Eloise Ruthven Tremain Memorial Fund*

RUTH C. PEARCE, PH.D. (University of Pennsylvania), *Instructor in Russian*

ROSAMOND KENT SPRAGUE, PH.D. (Bryn Mawr College), *Part-time Instructor in Greek*

ROBERT A. WALLACE, A.B. (Harvard University), *Part-time Instructor in English*

HARRY C. AVERY, M.A. (University of Illinois), *Instructor-elect in Greek*

MIREILLE AZIBERT, *Licence-ès-lettres* (University of Paris), *Instructor-elect in French*

ROBERT GORDON BEARD, PH.D. (Johns Hopkins University), *Instructor-elect in Biology*

JANE SCHWARTZ BENJAMIN, PH.D. (Yale University), *Instructor-elect in History*

SANDRA M. BERWIND, A.B. (Wheaton College), *Part-time Instructor-elect in English*

MIGUEL GONZALEZ-GERTH, M.A. (University of Texas), *Instructor-elect in Spanish*

JANE GOODALE, PH.D. (University of Pennsylvania), *Instructor-elect for Semester I in Anthropology*

LYDIA HALLE, PH.D. (Bryn Mawr College), *Instructor-elect in Latin*



GABRIELLE SCHOEPFLICH HOENIGSWALD, M.A. (Bryn Mawr College), *Part-time Instructor-elect in Latin*

JANE COLLIER KRONICK, M.S. (Yale University), *Instructor-elect in Social Work and Social Research*

FREDERIC G. LAYMAN, M.S. (Harvard University), *Instructor-elect in Geology*

BRUNILDE S. RIDGWAY, PH.D. (Bryn Mawr College), *Part-time Instructor-elect in Classical Archaeology*

CATHERINE RODGERS, B.A. (Oxford University), *Instructor-elect in English*

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KATRIN TAEGER, M.A. (Bryn Mawr College), *Part-time Instructor-elect in German*

BEATRICE YAMASAKI, M.A. (University of Hawaii), *Part-time Instructor-elect in Philosophy*

FRITZ JANSCHKA, *Akademischer Maler (Akademie der Bildenden Künste), Artist in Residence*

SANDRA GREEN LOVELL, A.B. (Bryn Mawr College), *Curator of Slides*

WILLIAM H. REESE, PH.D. (University of Berlin), *Director of Orchestra*

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- KENNETH L. LAWS, M.S. (University of Pennsylvania) , *Part-time Assistant in Physics*
- NELLY J. K. LINCOLN, A.B. (Bryn Mawr College) , *Part-time Assistant in Biology*
- ADELAIDE W. MAUCK, A.B. (Bryn Mawr College) , *Part-time Assistant in Chemistry*
- JANE R. McCONNELL, PH.D. (Bryn Mawr College) , *Part-time Assistant in Biology*
- MARILYN S. McHENRY, A.B. (Pomona College) , *Part-time Assistant in Education*
- SHARON MESSENGER, A.B. (College of Idaho) , *Part-time Assistant in Biology*
- MILLARD G. MIER, A.B. (Occidental College) , *Part-time Assistant in Physics*
- SUE C. NUTTALL, M.A. (Bryn Mawr College) , *Part-time Assistant in Anthropology*
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- DOROTHEA J. RHEA, M.A. (Bryn Mawr College) , *Part-time Assistant in Mathematics*
- HSIO-YEN SHIH, M.A. (University of Chicago) , *Part-time Assistant in History of Art*
- RALPH TRENT SORENSON, A.B. (Wesleyan University) , *Part-time Assistant in Psychology*
- LAWRENCE VERBIT, A.B. (College of William and Mary) , *Part-time Assistant in Chemistry*
- KAREN E. WIER, B.S. (University of Washington) , *Part-time Assistant in Geology*

## Officers of Administration

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CAROL BIBA, A.B. (University of Wisconsin), *Director of Public Information*

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PAUL W. KLUG, C.P.A., B.S. (Temple University), *Comptroller*

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CLARISSA WARDWELL PELL, *Executive Director of the Resources Committee*

LAURA RICHARDSON SCOVILLE, A.B. (Bryn Mawr College), *Executive Secretary of the Seventy-Fifth Anniversary Committee*

HORACE T. SMEDLEY, *Superintendent of Buildings and Grounds*

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JANET MARGARET AGNEW, M.A. (University of Manitoba), *Head Librarian*

PAMELA G. REILLY, M.S.L.S. (Drexel Institute), *Head of Circulation and Reference Department*

JANE WALKER, B.S. (Simmons College), *Head of Cataloguing Department*

ELIZABETH AMANN, M.L.S. (Rutgers University), *Assistant in Cataloguing Department*

SARAH C. BENHAM, M.S.L.S. (Western Reserve University), *Assistant in Cataloguing Department*

KANTA BHATIA, M.S. (Simmons College), *Assistant in Cataloguing Department*

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## Halls of Residence

EMILY DUTROW, A.B. (Pennsylvania State University), *Warden-elect*

CHARLOTTE GIRARD, B.A. (University of British Columbia), *Warden-elect of Wyndham*

MARGARET HOOEY, B.A. (University of Toronto), *Warden of Pembroke West*

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BERYL WILKINSON, M.A. (Bryn Mawr College), *Senior Resident of the Graduate Center*

## Health

ELIZABETH HUMESTON, M.D. (Cornell University), *College Physician*

FREDERIC C. SHARPLESS, M.D. (University of Pennsylvania School of Medicine), *General Consultant*

HOWARD B. SMITH, M.D. (Jefferson Medical College), *Consulting Psychiatrist*

RICHARD G. LONSDORF, M.D. (University of Pennsylvania School of Medicine), *Consulting Psychiatrist*

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

## Physical Education

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

ETHEL GRANT, *Instructor in Physical Education*

GLORIA SCHMIDT, M.A. (New York University), *Instructor in Physical Education*

JANET A. YEAGER, *Instructor in Physical Education*

## Phebe Anna Thorne School

SUSAN E. MAXFIELD, M.S. (Syracuse University), *Director*

EVE BRILL, B.S. (Teachers College, Columbia University), *Teacher*

GEORGIANNA ENGSTROM, A.B. (University of Minnesota), *Assistant Teacher*

EMILY W. DUTROW, A.B. (Pennsylvania State University), *Assistant Teacher*

## Child Study Institute

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania), *Director*

LOIS R. TABER, A.B. (Mt. Holyoke College), *Social Caseworker*

ELIZABETH WHEELER, M.S.S. (Bryn Mawr College), *Social Caseworker*

CORNELIA T. BIDDLE, A.B. (Bucknell University), *Part-time Social Caseworker*

ELSIE WAELDER, M.S.W. (Western Reserve University), *Part-time Social Caseworker*

LELIA BRODERSEN, M.A. (Temple University), *Psychologist*

ELEANOR BEATTY, M.A. (George Washington University), *Psychologist*

ANITA GRINNELL, M.S. (University of Pennsylvania), *Part-time Psychologist*

CONSTANCE GRANT, B.S. (University of Pennsylvania), *Remedial Reading Teacher*

CALVIN SETTLAGE, M.D. (University of Wisconsin Medical School), *Consulting Psychiatrist*

MARGARET DEALY, M.D. (Cornell University Medical College), *Consulting Psychiatrist*

HERMAN STAPLES, M.D. (Hahnemann Medical College), *Consulting Psychiatrist*

MARILYN S. MCHENRY, A.B. (Pomona College), *Assistant*

## Committees

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# The Graduate School

## ADMISSION

THE GRADUATE SCHOOL is open to qualified graduates in liberal arts, men and women, from colleges or universities of acknowledged standing. Application for admission, to be made to the Dean of the Graduate School, Bryn Mawr College, Bryn Mawr, Pennsylvania, should be supported by official transcripts of the student's full academic record and by letters from the dean and from two or more professors of the applicant's undergraduate college. Applications must be filed, complete, by the beginning of the appropriate registration period.

Admission to graduate courses is under the jurisdiction of the various departments which may, at their discretion, require students whose preparation is insufficient to pursue certain introductory courses before being enrolled in a graduate course. Admission to the Graduate School does not automatically qualify a student to become a candidate for an advanced degree. Students whose courses of study meet the prerequisites may on application to the Graduate Committee be enrolled as candidates for the Degrees of Doctor of Philosophy, Master of Arts or Master of Social Service.

Graduate Record Examination. The Bryn Mawr Graduate School recognizes as contributory evidence of the qualifications of a student for admission a record of attainment in the Graduate Record Examination as prepared and administered by the Educational Testing Service. The examination is a convenient method by which a student may supplement transcript records. Applicants for admission to the Graduate School who wish to take the examination should apply directly to the Graduate Record Examination, P.O. Box 592, Princeton, N. J., where full information may be secured and arrangements for taking the test may be made.

## REGISTRATION

Every graduate student must register for courses at the Office of the Dean of the Graduate School if possible in the opening week of the semester, certainly within the first two weeks. Permission to take advanced undergraduate and graduate courses must be secured from the various departments. Changes in registration must be approved by the Dean.

## Program of Study

THE GRADUATE PROGRAM is planned to give students a small number of hours in the seminar (often not more than six) and ample time for individual work under the guidance of members of the faculty. Graduate students work in seminar rooms and laboratories close to the offices of members of the faculty and have abundant opportunity for conference and discussions.

Seminars and graduate courses are described under the announcements of the departments. They are open to properly qualified first-year as well as more advanced graduate students.

Three units of graduate work constitute a full program. Instead of a seminar or graduate course, students may take for graduate credit:

1. A supervised unit of graduate work, equivalent to a seminar or graduate course, planned and examined by an instructor but carried on independently by the student. Such work may consist of reading with assigned reports, research with results submitted or a combination of both.
2. An advanced undergraduate course with additional work. Advanced undergraduate courses are sometimes elected to complete the student's prerequisites or to provide essential training in an allied field. One such course, accompanied by additional work, may, with the approval of the major department, be included in the M.A. program. Advanced undergraduate courses and certain second-year and elective courses are included with the graduate courses in this Calendar. A full list of undergraduate courses is available in the Calendar of Undergraduate Courses.

*Prerequisites.* The prerequisites for graduate courses are established by the various departments. In special cases, with the approval of the department concerned, work in related subjects may be accepted in lieu of the stated prerequisites.



*Grading.* Two grades are given for graduate work, Satisfactory and Unsatisfactory. Occasionally extensions may be given for the completion of work. However, there will be no extension beyond November 1st of the year following that in which the work was due. After November 1st the work will be graded Unsatisfactory or the term Incomplete will remain permanently on the record.

*Journal Clubs and Colloquia.* In many departments the instructors and graduate students meet from time to time to discuss current research or to review recent publications in their field of study. Students will be notified by their respective departments of arrangements for their Colloquia or Journal Clubs.

## RECIPROCITY WITH THE UNIVERSITY OF PENNSYLVANIA

Courses at the University of Pennsylvania are available to graduate students at Bryn Mawr College. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the University is limited to the equivalent of one unit per year. Under the Reciprocal Plan the procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr. The University charges a general fee of \$2.50 for the use of the Library, a \$5.00 library deposit, which is refundable, and fees for lateness. Students who plan to take a course at the University should complete their Bryn Mawr registration and obtain their letters of introduction promptly.

## SUMMER WORK

Bryn Mawr has no summer session. Occasionally, however, arrangements can be made for graduate students to continue their researches during the summer under the supervision of members of the faculty. Such arrangements are made at the invitation of the instructors. The amount of credit for the work and the tuition fee to be charged depend upon the particular circumstances.

# The Degrees of Doctor of Philosophy, Master of Arts, and Master of Social Service

**B**RYN MAWR COLLEGE awards the degrees of Doctor of Philosophy, Master of Arts, and Master of Social Service.

## THE DEGREE OF DOCTOR OF PHILOSOPHY

The course of study for the degree of Doctor of Philosophy at Bryn Mawr College is designed to prepare the candidate for a professional career as a scholar. The course offers the student the opportunity to acquire a broad general background in chosen fields of knowledge and practice in research in these fields. The degree is awarded after the student's general knowledge and ability in research have been tested by examination and by a dissertation.

The candidate for the Ph.D. degree should have ability of high order, intellectual curiosity and critical judgment, independence, a broad general education, fundamental training in the major and allied fields and the determination needed to carry through an exacting program.

The regulations for the Ph.D. degree are described in detail in a special pamphlet which will be given to applicants for candidacy. The general requirements, to which should be added those of the various departments, are:

1. An undergraduate preparation in major and allied fields which is satisfactory to the departments concerned and to the Graduate Committee.
2. A course of study requiring a minimum of three full years of work beyond the A.B. degree in major and allied fields; for graduates of other colleges, two of these years must be spent in the Graduate School of Bryn Mawr College but for candidates who have held academic appointments at Bryn Mawr College

and occasionally for others this requirement may be reduced by the Graduate Committee; for candidates who hold the A.B. degree from Bryn Mawr College, one full year of graduate work at Bryn Mawr is required. Although there are no formal course requirements for the Ph.D. degree, students will ordinarily find it advisable to complete six or seven units of graduate work.

3. The acceptance of the student as a candidate by the Director of her work, by members of her major department and by the Graduate Committee. Application for candidacy, on a form to be obtained at the Graduate Office, may be made as early as the spring of the student's first year in the Graduate School.

4. A reading knowledge of two modern languages, tested by written examinations in the translation of texts in the field of the major subject.\* These examinations must be passed before the student takes the Preliminary Examination. Students who have passed the general type of language examination at Bryn Mawr within the previous five years may meet this requirement by an informal test administered by the Department.

5. A satisfactory Preliminary Examination in the candidate's major and allied fields. This examination, consisting of several written examinations, and, at the option of the department, an oral examination, is intended to test the candidate's general knowledge of the fields rather than familiarity with particular courses.

6. The preparation of a dissertation judged to be a contribution worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject. It must contain new material, results or interpretations.

7. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

8. The publication of the dissertation in whole or in part. Microfilming is accepted as a method of publication.

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\* See the statements under the Departments for the language requirements. For the Ph.D. in Social Work only one modern language is required.

A student whose mother tongue is not English may, with the approval of her department, offer English as one of the modern languages. (She may not offer her own language.)

## THE DEGREE OF MASTER OF ARTS

The degree represents the completion of a coordinated program of graduate work which, for a well-prepared candidate, requires a minimum of a full year of graduate study. Work for the degree may be spread over several academic years which need not be in succession but must be included in a five-year period. Only courses taken at Bryn Mawr College are credited for the degree.

*Prerequisites.* The prerequisite for the M.A. degree is an A.B. degree or its equivalent from an American college of recognized standing or a degree or certificate of the same standard from a foreign university. The preparation must include such undergraduate work in the candidate's major subject and allied fields as various departments shall require.

*Application.* The candidate applies for the degree in the department of the major work, must receive the endorsement of the department for the program of work and must be accepted by the Graduate Committee. The application and the program endorsed by the major department must be submitted to the Dean of the Graduate School not later than December first of the academic year in which the candidate wishes to take the degree. Application forms are supplied by the Graduate Office.

*Language Requirement.* A reading knowledge of two modern languages is in general required of all candidates.\* Students in Economics, Education and Sociology may offer Statistics instead of the second language. In Psychology, Statistics is required and the language requirement is therefore reduced to one. Candidates whose major work is in a modern language must offer a reading knowledge of two other languages.

Holders of the Bryn Mawr A.B. degree who have as undergraduates passed examinations in the languages required for the M.A. degree by their major departments are not required to be re-examined unless five years have elapsed between the time when the A.B. language examination was passed and the date set for the M.A. language examination.

A student whose mother tongue is not English may offer Eng-

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\* See the statements under the Departments for the departmental language requirements.

lish for one of these languages. (She may not offer her own language.) \* The requirement in English shall be met by a certificate from the student's major department that her English is adequate or by a special examination given by her department not later than November in the academic year in which the degree is to be taken. This special regulation for foreign candidates does not prevent a department from refusing to admit students to any seminar for which their language proficiency is inadequate.

The language requirement is met by passing one of two types of examination, hereinafter referred to as the general and the special types. (1) General type: a test of reading at sight and with a dictionary which is given by Bryn Mawr College to candidates for the A.B. degree. (2) Special type: a test set by the major department in reading, at sight and with a dictionary, technical material in the candidate's field such as is required of Ph.D. candidates at Bryn Mawr College. Departments vary in the type of examination required.

Examinations in languages, and in the techniques which may be substituted for one language, will be held three times each year, in October, January and April. At least one of the examinations must be taken not later than the October period of the academic year in which the degree is to be received. All departments except Biology, Classical Archaeology, Mathematics and Spanish require that at least one shall be passed by that time. No candidate may receive the degree in any academic year unless she has passed both examinations by the January examination period, or, in special cases approved by the major department and the Graduate Committee, has been permitted to postpone passing one until the April examination period.

Students are expected to prepare for these examinations before entering upon the work for the M.A. degree and are strongly urged to take both examinations in October. *Students who do not meet the two requirements in languages and techniques in October may find it impossible to carry a full program and complete the requirements for the degree in one year.*

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\* Foreign students in the Department of Education may offer Statistics and English; in Psychology, Statistics being obligatory, the language requirement may be satisfied by English alone.

*Program of Work.* The candidate's program must include three units of work: (1) one seminar or graduate course; (2) a second seminar or supervised unit of graduate work; (3) a third seminar or an undergraduate course recommended by the major department. If undergraduate courses are included in this last unit, they must be supplemented by organized individual work. Under certain circumstances advanced undergraduate courses in science can be counted as seminars, subject to the approval of the department and the Dean of the Graduate School. Candidates may take their three units of work in one major department or two in a major department and one in an allied field. Candidates whose major department conducts a Journal Club or Colloquium are expected to include it in their registration.

*Special Field.* The candidate shall, in consultation with the major department, select a special field for the M.A. paper and the Final Examination. It is expected that this field will normally relate to one of the seminars or units of graduate work in the candidate's program.

*Final Requirements.*

1. *Courses.* Before the Final Examination period, candidates must have completed to the satisfaction of their instructors the courses registered for the degree. No candidate will be admitted to the Final Examination if one of these courses is reported as unsatisfactory.

2. *Paper in the Special Field of the Student's Major Subject.* Every candidate must present a paper in the special field. The paper may take the form of a report on a special piece of investigation carried on throughout the year or during a definite period, or of a problem which is assigned to be completed during a specified limit of time.

3. *An Examination.* Every candidate must pass a Final Examination which shall test her ability to place the special field in the general background of the major subject.

The Final Examination may not be taken until

- (1) the language requirements have been met;
- (2) the three units have been reported as satisfactory;
- (3) the paper in the special field has been accepted.

## THE DEGREE OF MASTER OF SOCIAL SERVICE

The Department of Social Work and Social Research provides a two-year program of study leading to the degree of Master of Social Service.\* The program for the professional degree of M.S.S. is designed to prepare men and women for Social Casework, Social Group Work, Community Organization and Social Research. Two academic years of full-time study are required. The degree represents the completion of a coordinated program of courses and field instruction. In the program in social casework, provision is made for concentration in the following specific fields: Child Welfare, Family Welfare, Medical and Psychiatric Social Work.

*Prerequisites.* The prerequisite for the M.S.S. degree is an A.B. degree or its equivalent from an American college of recognized standing, or a degree or certificate of the same standard from a foreign university. An undergraduate major in one of the social sciences is usually required, although in exceptional cases this requirement is waived. There are no language requirements for the M.S.S. degree.

*Program of Work.* The basic first-year program is similar for all students except that the student selects either casework or group work as the principal course in social work methods. The first-year courses are:

Introduction to the Social Services

Normal Growth and Behavior

Pathology in Growth and Behavior

Community Organization I

Social Group Work I

Social Research I

Social Casework I

Social Casework II or Social Group Work II

Field Instruction throughout the two semesters in either  
Social Casework or Social Group Work

The courses in the second year are in part determined by the field of concentration of the student, that is, social casework,

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\* The M.A. degree is not offered in this Department.

community organization or social research. The courses required of all students include:

- The Public Social Services
- Social Issues and Social Policy
- Thesis Seminar

Other second-year courses will be selected from the following:

- Patterns of Behavior
- Social Administration
- Social Foundations of Behavior (Elective)
- Community Organization II and III
- Social Research II and III
- Social Casework III and IV
- Field Instruction during each semester in Community Organization, Research or Social Casework

*Requirements for Degree.* Candidates for the M.S.S. degree must have completed a minimum of six units, including designated field work; they must prepare a Master's thesis and pass a Final Examination which tests their ability to place their special fields in the general background of social work.



# Residence and Fees

## THE GRADUATE CENTER

**R**ESIDENCE for forty-five women graduate students is provided in the Graduate Center which lies at the north end of the campus, about an eight-minute walk from the Library. There is a separate room for each student; meals and health service are included in the residence charge.

Besides housing forty-five women students the Graduate Center is the headquarters of the Graduate Club, the nucleus of the social life of the Graduate School. The Center's public rooms—a large living room and the Manning-Smith recreation room—are available to all members of the Club. The dining room, which seats sixty, is open to non-resident students living outside the Center who wish to lunch or dine there. For the residents there are smoking rooms and tea pantries. The bedrooms are fully furnished except for curtains and rugs. Bed linen, including blankets, is provided but students should bring their own towels. Because of College fire regulations, smoking is not permitted in the bedrooms.

Application for a room should be made as early as possible. A room contract, which will be sent upon request, must be signed and returned with a deposit of ten dollars to the Dean of the Graduate School. The amount of the deposit will be deducted from the residence fee; it will not be refunded under any circumstances.

A student who has reserved a room in the Graduate Center will be held responsible for the residence charge unless she sends notice of withdrawal, in writing, to the Dean of the Graduate School before September first. Appropriate reduction or remission of the residence fee will be made if the College is able to reassign the room to another student not already accommodated in the Center. The student herself is not entitled to dispose of the room she leaves vacant. Appropriate reduction or remission will be made for that portion of the residence fee which represents the cost of food. A student in residence who is absent from

the College for six weeks or more because of illness will also receive a proportionate reduction for food.

The regular charge for residence (room, board and health service) for graduate students is \$950 a year, payable one half early in the first semester and the other half early in the second semester.

Residence in the Graduate Center is for the academic year only—from the opening of college until Commencement Day. All college residence halls are closed during the Christmas vacation but accommodations in the neighborhood can usually be secured by graduate students who wish to continue their work. During the spring vacation one hall of residence is kept open and graduate students may occupy rooms in it at a fixed rate. Baggage will not be accepted at the College before September 15th. It should be sent prepaid, addressed to the Graduate Center.

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

### FEES

The tuition fee for graduate students is \$800 a year, payable one half early in the first semester and the other half early in the second semester.

For students registered for part-time work the fee for each course, seminar, or unit of supervised work, is \$300 a year or \$150 a semester.

Fees for auditors are the same as for students registered in courses for credit.

All students taking courses which require field work in the Department of Social Work are charged a fee of \$10 a semester for each such course taken during the academic year and a fee of \$10 for summer field work. This fee covers a part of the expenses of field supervision. In addition students are required to

meet their travelling and incidental expenses while working in the field during the academic year and vacations.

Students taking undergraduate courses in the sciences (not for graduate credit) are charged laboratory fees at \$10 per course per semester, or \$25 per semester for three courses.

Students whose fees are not paid before November first in the first semester and before March first in the second will not be permitted to continue in residence or to attend their classes. No reduction of the tuition fee will be made on account of absence or dismissal or for any other reason.

The graduation fee for Doctors of Philosophy, Masters of Arts, and Masters of Social Service is \$20.00.

The Office of the Recorder will supply on request one transcript of the record of each graduate student free of charge. For additional transcripts a charge of \$1.00 each will be made.

#### SUMMARY OF EXPENSES FOR THE ACADEMIC YEAR

##### Regular

Tuition Fee ..... \$800

Residence (including health service) ..... 950

##### Contingent

Dispensary Fee (for non-resident students) ..... 15

Social Work Field Work Fee ..... 20

Graduation Fee ..... 20

Expenses, Christmas and spring vacations,  
commuting ..... variable

Laboratory Fees for undergraduate courses (not for grad-  
uate credit), per course per year ..... 20

#### GRADUATE CLUB

All graduate students residing in the Center are members of the Graduate Club and non-resident students, men or women, may become members. The organization of the life of the graduate students in all matters not purely academic or affecting hall management is in the hands of the Club. The President of the Graduate Club is a member of the College Council, a non-legislative body which meets periodically to discuss matters concerning the College as a whole.

# Fellowships and Scholarships

THE COLLEGE awards, on the basis of academic excellence, about sixty graduate scholarships and fellowships to women who are graduates of accredited colleges or universities. Some awards are open to men on the same basis. The various types of awards are described below.

## APPLICATION

Applications for fellowships and scholarships should be made to the Dean of the Graduate School and must be filed complete not later than March first preceding the academic year for which they are desired. The documents are the same as for admission. Blanks are forwarded to all applicants by the Graduate Office. Awards are announced each year on April first and recipients should signify their acceptance or refusal by April fifteenth. Original papers and photographs, sent by applicants in support of their applications, will be returned only if postage is enclosed for that purpose, or specific instructions are given for return by express collect. Testimonials and letters from professors and instructors are filed for reference.

Completed applications for scholarships for foreign women must be received not later than February first. The applicants will be informed of the results early in March.

## FELLOWSHIPS

Twenty-three Fellowships, value \$2050 each, are offered annually in Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, Educational Psychology, English, Geology, German, Greek, History, History of Art, Latin, Mathematics, Mediaeval Studies (the Howard Lehman Goodhart Fellowship), Music, Philosophy, Physics, Political Science (the Justus C. Strawbridge Fellowship), Psychology, Romance Languages (two fellowships), Russian, Social Work (the Carola Woerishoffer Memorial Fellowship), and Sociology and Anthropology. They are awarded on the basis of merit and are open to American and Canadian women who are graduates of colleges of good standing, and who have completed at least one full year of graduate work.

*The Margaret Gilman Fund.* An additional Fellowship or Scholarship in French, open to both men and women, is awarded from the interest on this fund which was established in 1958 by bequest of the late Margaret Gilman, Professor of French at Bryn Mawr College.

*The Theodore N. Ely Fund.* An additional Fellowship or Scholarship in Art or Archaeology is awarded from the interest on this fund which was established in 1959 by bequest of Katrina Ely Tiffany, Class of 1897.

Fellows who continue their studies at the College after the expiration of their fellowships may, by a vote of the Directors, receive the rank of Fellow by Courtesy.

### GRADUATE SCHOLARSHIPS

Twenty-one Graduate Scholarships, value \$1350 each, are offered annually to women for work in any department of the Graduate School. Holders of these scholarships in their first year at Bryn Mawr are required to live at the Graduate Center. Others may elect to do so. The stipend covers tuition and part of the residence charges. Scholars who have had a full year at Bryn Mawr may live off campus. Tuition plus Dispensary fees will be deducted from the stipend and the balance paid the student in November and March.

The College also offers several Graduate Scholarships, value \$1350 each, to men. Tuition plus Dispensary fees will be deducted from the stipend and the balance paid the student in November and March. There is no hall of residence for men.

### TUITION SCHOLARSHIPS

Eight scholarships providing free tuition are available to men and women whose homes are in the neighborhood.

### SCHOLARSHIPS FOR FOREIGN WOMEN

Ten scholarships are especially designated for foreign women who have excelled in their university studies. Applicants must have had three or four years of university training. Each scholarship carries a stipend of \$1750 which covers full tuition and board and lodging in the Graduate Center during the academic year. (Vacations are not included and students will need to

provide additional funds for these and for other non-college expenses.) A student who holds a scholarship for a second year may live off campus if she prefers. Scholarship holders are expected to carry a full program of graduate work and to attend regularly the courses for which they are registered. At times an advanced undergraduate course may meet the student's needs better than a graduate seminar; in that case she will make extra contributions in order to bring the work to the graduate level. Most of the formal work, however, is given in seminars. These are best described as small discussion groups in which the students, as well as the instructor, actively participate. It is essential, therefore, that the student be able not only to read and write English, but to understand it and speak it fluently. For a full statement of the graduate program and requirements, reference should be made to the preceding pages and to the departmental announcements.

*The Marguerite N. Farley Scholarships for Foreign Women.* Five foreign scholarships, of the value of \$1750, are offered to women from any country, outside the United States and Canada.

*A Special British Scholarship*, of the value of \$1750, is reserved for a candidate from Great Britain sponsored by The English-Speaking Union.

*Special Foreign Scholarships for French, German, Italian and Spanish*, of \$1850 each, have been established for countries whose languages form part of the Bryn Mawr curriculum. Holders of these scholarships are asked to devote four or five hours a week to supervised teaching or other assistance in the appropriate language department. The Special Scholarship for French has been named in memory of Marcelle Pardé who was a member of the French Department of Bryn Mawr College between 1919 and 1929. The Special Scholarship for Spanish has been named in memory of Miguel Catalan, distinguished Spanish physicist and friend of Bryn Mawr.

#### SCHOLARSHIPS AND FELLOWSHIPS UNDER THE PLAN FOR THE COORDINATION OF THE SCIENCES

The several departments of the natural sciences and mathematics administer a fund for the Coordination of the Sciences, given to the College by the Carnegie Corporation of New York.

Its purpose is to encourage and facilitate teaching and research in overlapping fields of science, such as biochemistry, biophysics, geochemistry, geophysics, psychophysics.

Usually three scholarships of the value of \$1350 are offered to qualified students who have had undergraduate training in two or more of the natural sciences and who wish to continue study in some borderline field. Scholarships are, however, also awarded to those students who plan to specialize in only one science, but feel the need for broadening their knowledge in some related science.

Since many students do not have the time to obtain an adequate preparation in two or more sciences during their undergraduate training, provision is also made for a so-called "Fifth Year." Scholarships are offered to those students who want to broaden their undergraduate preparation in several sciences. Courses taken during the Fifth Year will usually consist of undergraduate courses, and such a program, therefore, does not lead to a higher degree in the first year.

Two fellowships of the value of \$2050 each in the same fields are also offered to candidates who, in addition to undergraduate training, have had at least a year of graduate work in science.

These Scholars and Fellows will pay the regular tuition of \$800 a year. For residence in the Graduate Center which is allowed if the candidate so desires and if room is available, an additional \$950 will be charged.

Occasionally a post-doctoral Research Fellowship is offered to a candidate who wishes to work in a borderline field, as outlined above, or one who, while working in one science, wants to utilize methods or tools of another science for the specific research problem.

The scholarships and fellowships under the Plan for the Coordination of the Sciences are open to men as well as women, but among candidates of equal ability preference is given to women.

*The Helen Schaeffer Huff Memorial Research Fellowship.* This fellowship is awarded for a year of research work in Physics or Chemistry at Bryn Mawr College. Candidates must be women who have demonstrated their ability for research. If other qualifications are equal among a number of candidates, preference will be given to a woman whose field of research overlaps the

fields of Chemistry and Physics. This fellowship is normally awarded to a post-doctoral candidate to enable her to continue her research program. In such cases the stipend will be \$3200. In exceptional cases, candidates engaged in important research who have not completed the work for the doctorate will be considered. For such students the stipend will be less, the amount to be determined on the basis of the candidate's qualifications.

The Helen Schaeffer Huff Memorial Research Fellow has no duties except those connected with her own research, but she may arrange with the department in which she is working to do a small amount of teaching if she so desires. The holder of this fellowship may, if she wishes, live in the Graduate Center.

#### SOCIAL WORK AND SOCIAL RESEARCH

*The Carola Woerishoffer Fellowship in Social Work and Social Research*, of \$2050, is offered annually to a student in Social Work. See p. 38.

*The Carola Woerishoffer Scholarship in Social Work and Social Research*, of \$1350, is offered annually to a student in the Department of Social Work and Social Research.

*Agency Fellowships and Scholarships.* A number of scholarships ranging in value from \$500 to \$2400 are offered by various agencies in Philadelphia and vicinity to second-year graduate students, men and women, who wish to be candidates for the degree of Master of Social Service. These agency scholarships and fellowships frequently call for field work placement in the agency giving the grant, and in some cases require an agreement relative to employment for one year following the holding of a grant.

*Federal Stipends.* The United States Public Health Service offers traineeships of \$1800 for first-year students, and \$2000 for second-year students, both men and women. The holders of such stipends must have career objectives in psychiatric social work.

The Office of Vocational Rehabilitation offers traineeships of \$1800 and \$2000 for first- and second-year students respectively. Holders of such stipends must have career objectives in rehabilitation.

Traineeships of \$2400 for the third year and \$3600 for the fourth year of study are also available from the United States



Public Health Service to advanced students who meet certain requirements and are beginning work for the Ph.D. Application to the Department for such traineeships is necessary by November first of the year preceding the proposed year of study.

Both local agency stipends and Federal traineeships are awarded to the student by the Department.

*The Alumni Association of the Department of Social Work and Social Research* usually provides a tuition scholarship open to either first- or second-year students.

*Susan M. Kingsbury Research Assistantship*, a research assistantship of the value of \$1400 with remission of tuition, will be granted to an advanced student, preferably a candidate for the degree of Doctor of Philosophy, who from either training or experience has knowledge of methods and techniques in social research. The holder of the Assistantship will give half time to the research of the Department, and half time to study and is not permitted to hold any other paid position.

#### TRAVELLING FELLOWSHIPS

*The Fanny Bullock Workman Fellowship*, value \$2000, for a year of study or research abroad or in special cases in the United States, was established in 1927 by bequest of Fanny Bullock Workman and by gift of her husband, Dr. W. Hunter Workman. It is awarded to a candidate for the degree of Doctor of Philosophy at Bryn Mawr College who could not have the advantages of such a year without assistance. At the discretion of the Faculty, the fellowship for any one year may be divided between two students, or the same student may hold the fellowship for more than one year.

*The Anna Ottendorfer Memorial Research Fellowship* in Teutonic Philology and German Language and Literature, founded in 1907 by Mrs. Anna Woerishoffer of New York City in memory of her mother, is to be applied to the expenses of study and residence for one year at some German university. It is awarded annually to a candidate who has completed at least one year of graduate study at Bryn Mawr College, on the basis of evidence regarding her ability to conduct independent investigations in the fields of Teutonic Philology or German Literature. The choice of a university is determined by the holder's preference subject to the approval of the Faculty.

*The Ella Riegel Fellowship or Scholarship* in Classical Archaeology was founded in 1937 by bequest of Ella Riegel. It is awarded on the recommendation of the Department of Classical and Near Eastern Archaeology and only to advanced students in this subject. It is given for study abroad but may, at the discretion of the Department, be used at Bryn Mawr College.

#### DUTIES OF FELLOWS AND SCHOLARS

All holders of fellowships and scholarships are required to carry a full program of graduate work. Fellows and Scholars are expected to attend official functions of the College and assist in the conduct of examinations. Holders of fellowships may be asked to give about an hour and a half a week to special work assigned by their departments, and are not permitted to accept any other appointments. Holders of scholarships may, with the approval of the Dean of the Graduate School, make their own arrangements to do a limited amount of paid work. Each Travelling Fellow is asked to present a written report of her work during her year on her fellowship. This report should be sent about the first of March to the Dean of the Graduate School for transmittal to the student's department.

#### GRADUATE PRIZE

*The Susan B. Anthony Memorial Prize*, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered from time to time to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic or political position of women. The award is made by the Committee of which the President of the College is chairman. The value of the prize is determined by funds available from the income of the gift to the College.

#### EMMY NOETHER FELLOWSHIP IN MATHEMATICS

*The Emmy Noether Fellowship* was founded by gifts from many donors in memory of Emmy Noether who came to Bryn Mawr College from Germany in 1933 and who died April 14, 1935. It is open to women in the United States and in foreign

countries who are advanced graduate students of Mathematics. It is awarded by the Department of Mathematics in Bryn Mawr College, and may be used, subject to the approval of the Department, at any institution in the United States or in a foreign country.

#### GRANTS-IN-AID

Contributions to the Alumnae Fund by former graduate students have placed at the disposal of the Graduate Scholarships Committee a small fund from which grants-in-aid may be made. These grants, not to exceed \$300, are given on the basis of need to holders of scholarships to help them meet college expenses. Application forms may be obtained from the Graduate Office; they should be submitted by April 15th.

#### GRADUATE ASSISTANTSHIPS AND DEMONSTRATORSHIPS

Assistantships or Demonstratorships, varying from one-half to one-third time and enabling the student to carry one or two units of graduate work with free tuition, are open to students in the Departments of Biology, Chemistry, Economics, Education, English, Geology, History, History of Art, Mathematics, Philosophy, Physics, Political Science, Psychology, Social Work and Social Research, and Sociology and Anthropology. For further information candidates should consult the Department and see the departmental announcements issued each year.

From time to time research assistantships are available in certain departments, e.g., Physics and Psychology. These assistantships are noted each year on the departmental announcements. They carry a stipend and provide free tuition in the Graduate School.

# Loan Funds

*The Students' Loan Fund of the Alumnae Association of Bryn Mawr College* was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

The committee in administering this money follows a definite policy, designed to serve the best interests of the students concerned. Loans may be used for any purpose approved by the committee, who strongly recommend the borrowing of small sums to relieve undue financial pressure, or to meet special emergencies. As a rule, money is not loaned to students in their first semester of graduate work. Not more than \$500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed \$1500.

The terms under which money is loaned are as liberal as is consistent with business-like principles. While the student is in College no interest is charged; after the student leaves College the interest rate is two per cent. The entire principal must be repaid within five years from the time the student leaves College at the rate of twenty per cent each year. Students who wish to borrow from the Loan Fund may obtain application blanks for this purpose from the Alumnae Office, The Deanery, Bryn Mawr, Pennsylvania.

*The Mary Hill Swope Loan Fund* was established June 1, 1945 by a gift of Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:

To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

1. The following order of preference shall be observed in awarding such loans:
  - a. To students coming from New Jersey.
  - b. To students coming from Missouri.
  - c. To students coming from any other location who have had not less than one year of residence at the College.

2. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn Mawr College, or by a Committee appointed by her from time to time.
3. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.
4. These loans shall be used primarily to enable the exceptional student to continue her studies which otherwise would be prevented through lack of means.
5. In the awarding of the loans, the recipient should understand that if in after years she is in a position to do so, she is to repay to the income account of the Loan Fund the amount so loaned to her, with or without interest. It is to be understood that this is entirely a moral obligation upon the recipient.

#### MEMORIAL LOAN FUNDS

*The Bertha Goldstein Memorial Loan Fund, the Rachel Pflaum Memorial Loan Fund and the Ethel Rupert Loan Fund* are revolving funds from which, upon recommendation of the Department of Social Work and Social Research, a limited number of loans may be made to graduate students in that Department. Loans are made without interest and must be repaid within one year after completion of study at Bryn Mawr.

## The Bureau of Recommendations

The College conducts a Bureau of Recommendations for alumnae, students, and former students. This Bureau offers an employment service for permanent, temporary, and part-time positions; and a vocational service for the student body, which includes vocational tests and assistance in choosing a vocation. It also acts as a clearing house for letters of recommendation for those who have registered with the Bureau. These letters will be sent, upon request, to prospective employers and other agencies.

Students of foreign citizenship are advised that government regulations severely limit their employment.

# The Library

THE M. CAREY THOMAS LIBRARY now contains over a quarter of a million volumes. The Library has a good working collection in all fields in which graduate study is offered. The collection includes files and current numbers of about one thousand periodicals published in the United States and abroad. For the use of graduate students there are twelve seminar rooms and, in addition, a limited number of carrels in the stacks. The scientific libraries are described on page 50.

The open shelf system provides the maximum of free access to the stacks so that almost all books except those in the Rare Book Rooms are directly available to the students. The Reference Room and Periodical Room provide ready access to standard works of reference and current periodicals. There is a large reading room with individual desks.

Provision is made in the Quita Woodward Memorial Room for books for pleasure or recreational reading. This collection, numbering about two thousand volumes, includes books in literature, art, religion, and current affairs as well as many of the classics.

In the two Rare Book Rooms unusual bibliographical items are shelved and displayed: early printed books, manuscripts, first editions, fine press books, and association copies. Exhibitions of the Library's own material and material lent by friends of the Library are displayed here at intervals during the academic year. Here also are incunabula numbering over nine hundred volumes, the gift of Howard L. Goodhart. This collection, known as the Marjorie Walter Goodhart Mediaeval Library and consisting mainly of philosophical and theological works printed in the 15th century, is outstanding among college library collections.

Other facilities available to graduate students are the rich resources in the libraries of the Philadelphia area. Through the services of the Union Library Catalogue at the University of Pennsylvania volumes in over 300 libraries within the area may be easily located. The Philadelphia Bibliographical Center and Union Library Catalogue has recorded over 3,500,000 titles in

the region by which research workers are aided in bibliographical problems outside the scope of any one library. Through this channel the great collections of the University of Pennsylvania, the Free Library of Philadelphia, the Historical Society of Pennsylvania as well as the Library Company of Philadelphia, the American Philosophical Society, the Franklin Institute, the Academy of Natural Sciences, the College of Physicians, Swarthmore College and Temple University are made available. Graduate students who wish to use other libraries for purposes of reference may secure letters of introduction from the Bryn Mawr librarian.

Three-college cooperation also augments the facilities of the M. Carey Thomas Library. In the main catalogue are filed author cards for books in the collection of Haverford College, facilitating the use of books in its library. Catalogue cards representing the authors of books pertaining to Russia and significant material collateral to the study of that country are filed for Swarthmore College as well as for Haverford.

#### ART MUSEUM AND SLIDE COLLECTION

The collection of slides used in the Departments of Classical and Near Eastern Archaeology and History of Art, includes some 40,000 items, representing all fields of Western and Oriental art from prehistoric times to the present. It is supplemented by a collection of 35,000 photographs and color reproductions.

A small but valuable group of original works of art, available for study, include Greek and Roman vases, ancient coins, sculpture, Oriental pottery and scrolls, prints, and modern American and European paintings. The Ella Riegel Museum of Classical Archaeology contains the Densmore Curtis Collection presented by Clarissa Dryden, part of the Hoppin Collection, the Elizabeth Washburn King Collection of Classical Greek coins, and the Aline Abaecherli Boyce Collection of Roman Republican silver coins, as well as various gifts from friends of the College. For Far Eastern study the Chapin Collection of books, paintings, calligraphy, textiles, and ceramics includes material from Korea as well as from China and Japan. Western art is variously represented by several small collections, including the Howard L. Gray Collection of Modern Prints and the Neuberger Collection of Contemporary American Paintings.

# Laboratories

THE natural science departments occupy three buildings. Mathematics, Physics and Psychology are in Dalton Hall, the original science building opened in 1893 and remodeled in 1939 and again in 1958. Chemistry and Geology are in Park Hall, completed in 1939. Biology is housed in a new building adjacent to Park Hall, whose completion in 1958 formed the second step toward an eventual Science Center.

In all three buildings there are large laboratories and lecture rooms for undergraduate students and smaller seminar rooms and laboratories for graduate students. In addition to the usual equipment, the science departments have special apparatus and instruments needed in particular research projects by faculty and graduate students and acquired, in part, through the plan for the Coordination of the Sciences and through research grants made to individual members of the faculty by government and other agencies.

In Dalton Hall, there is a machine shop with an expert machinist in charge and a student workshop available to graduate students. Several rooms in the Biology Building were especially designed for work with radioactive materials, for microphotography and for glass blowing.

Each science department has its own well-stocked library, which includes the appropriate scientific journals. In addition, the Department of Geology has over 25,000 maps, on deposit from the U. S. Army Map Service. The Department's large collection of minerals has been greatly enhanced recently by the gift from George and Henry Vaux of the famous Vaux collection.



# Health

**A**LL GRADUATE students, whether resident or non-resident, must file a physician's certificate stating that they have been vaccinated against smallpox during the year before entrance to the Graduate School and exhibited a typical or immune reaction to this vaccination. Students who do not certify to vaccination will be vaccinated at the time of their entrance physical examinations and charged a fee of two dollars. There is no exception to this rule.

Every entering resident graduate student is required to file at the office of the Dean of the Graduate School, on a blank supplied by that office, a report of a recent medical examination, filled in and signed by a physician.

Resident students must present on a separate blank a statement of immunization against tetanus by toxoid, evidence of a negative Schick test, or immunization against diphtheria, and a Mantoux test within one year of entrance. If the Mantoux test is reported positive a flat chest X-ray is required. If these have not been done by the time the student arrives in Bryn Mawr, these tests will be done at the time of the initial physical examination at a fee of one dollar for each test and the chest X-ray will be taken at Bryn Mawr Hospital at the student's expense.

Any resident graduate student who has a positive Mantoux test is required to have a yearly flat chest plate at Bryn Mawr Hospital beginning the year after admission to the Graduate Center. The student is charged for this at the prevailing rates of the hospital.

Every resident graduate student must file a certificate stating that her eyes have been examined by an ophthalmologist within six months before entrance to the Graduate School. Failure to comply with the above rule entails an examination by one of the college consultants for which the student will be charged as a private patient by the ophthalmologist who makes the examination.

Every entering resident graduate student is examined by the Physician of the College, with reference to physical development

and general health. Second- and third-year residents whose health records have been approved by the College Physician are not examined. Any graduate student who at the time of the examination or at any time during the year is not in good health is placed on the health supervision list.

The College maintains a modern 22-bed Infirmary staffed by five registered nurses and a secretary-technician. The College Physician is in her office in the Infirmary daily and may be consulted by the students without charge. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. The fees of the consulting physicians and surgeons and other specialists recommended by the College will be furnished on request. The Infirmary is open when college is in session and during the spring vacation. It is closed during the Christmas vacation.

The residence charge paid by each resident graduate student entitles her to free consultation with the College Physician and College Psychiatrists and to treatment in the college dispensary. It also entitles her to be cared for in the Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the College Physician during this time and to nursing, provided her illness is not contagious and is not sufficiently serious to require the services of a special nurse. The fee for each day in the Infirmary after the seven-day period is nine dollars. In case of contagious disease special nursing is obligatory and the student must meet this expense.

All resident and full time non-resident students of Bryn Mawr College are entitled to subscribe to the Students' Reimbursement Plan, which provides for a substantial proportion of hospital care and medical fees. The premium for this insurance is \$15 for a full year starting October 1st.

Non-resident Fellows and Scholars whose homes are not in the neighborhood are required to pay a non-resident dispensary fee of \$15, which entitles them to care and consultations by the College Physicians and Psychiatrists and to dispensary care. Other non-resident students may, if they so desire, pay this fee and receive the same benefits. *Since non-resident students cannot be given bed care in the Infirmary they are urged to take out medical insurance.*

# Announcement of Courses

The following is a list of the seminars and graduate courses and of undergraduate courses which can be expanded to count for graduate credit. It is the practice of most departments to vary the graduate courses and seminars from year to year. The announced order may be changed either because of changes in the teaching staff or in order to meet the needs of the students. For a full announcement of undergraduate courses see the Calendar of Undergraduate Courses.

Undergraduate courses in each department are numbered according to the following system:

201, 202, etc. . . . . indicate second-year undergraduate courses.

301, 302, etc. . . . . indicate advanced undergraduate courses.

“a” . . . . . the letter “a”, following a number, indicates  
a half-course given in the first semester.

“b” . . . . . the letter “b”, following a number, indicates  
a half-course given in the second semester.

“c” . . . . . the letter “c”, following a number, indicates  
a half-course given two hours a week  
throughout the year.

[ ] . . . . . Square brackets enclosing the titles of  
courses indicate that, although the  
courses are regular parts of the program,  
they are not given in the current year.

## Biology

**PROFESSORS:**MARY S. GARDINER, PH.D., *Chairman*

L. JOE BERRY, PH.D.

ELEANOR A. BLISS, SC.D.

JANE M. OPPENHEIMER, PH.D.<sup>1</sup>**ASSISTANT PROFESSOR:**

ROBERT L. CONNER, PH.D.

**INSTRUCTOR:**

ROBERT G. BEARD, PH.D.

*Special Requirements for Graduate Work*

(for the general requirements, see pp. 28-34)

*Prerequisites.* Good undergraduate training in Biology, or Zoology or Zoology and Botany, including courses in General and Organic Chemistry. Students whose preparation in Biology or in Chemistry is not considered adequate for admission to seminars will be required to make up the deficiency.

*Major and Allied Subjects.* Students may specialize either in Structural or Functional Biology. Students electing the former will be expected to take some work in the latter, and vice versa. The work in the subsidiary field of Biology may be counted as allied work; other allied subjects may be chosen from fields in Chemistry and Physics, and in special cases, with the approval of the Graduate Committee, from other related fields.

*Language Requirements.* Candidates for the M.A. and Ph.D. degrees must offer French and German to be tested by the special type of examination.

*Program and Examination for the M.A.* One full year, or its equivalent, of course work in seminars or advanced undergraduate courses arranged for seminar credit and a written report on a piece of experimental work carried out under the direction of a member of the Department. Qualified students may substitute a unit of supervised research for formal course work. While the work may be completed in one year by full-time students, it may be extended over two or more years and students with incomplete preparation may find such extension necessary. The Final Examination consists of a three-hour written examination covering the areas of study and a forty-five minute oral exami-

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1. On sabbatical leave for the year 1959-60.

nation concentrating particularly on the interpretation and significance of the experimental problem.

*Examinations for the Ph.D.* The Preliminary Examination for the Ph.D. consists of three written examinations of four hours' duration. Two of these will usually be in the major field and one in an allied field. In preparation for them, the candidate will probably elect to take all the seminars offered in her special area of interest and selected seminars or courses in related or allied fields. A large proportion of her time will be given to experimental research, the results of which will form the substance of her dissertation. The Final Examination is oral, covering the subject of the student's dissertation in relation to more general biological problems.

#### SEMINARS AND GRADUATE COURSES

All advanced undergraduate courses may be taken for graduate credit, provided that some additional work either in reading or experimentation is arranged with the instructor and completed by the student.

Seminars are offered in the following fields. The topics considered in any year are selected in accordance with the needs and desires of the students enrolled.

#### *Structural Biology*

Miss Gardiner: *Cytology*

Cell structure and function.

Cytological aspects of normal and abnormal growth.

Histogenesis.

Problems in mitosis and meiosis.

Miss Oppenheimer: *Experimental Embryology*

Factors controlling growth and differentiation.

Form and function in animal development.

Gastrulation and organogenesis in vertebrates.

Morphogenesis in invertebrates.

#### *Functional Biology*

Mr. Conner: *Biochemistry*

Selected topics in intermediary metabolism.

Biochemical techniques.

Mr. Berry: *Experimental Physiology*

Bioelectrics and selected topics in biophysics.

Kinetics of biological reactions.

Mechanisms of defense against infectious diseases.

Physiological techniques.

Physiology of micro-organisms.

### *Bacteriology*

Miss Bliss: *Bacteriology*

Bacteria and chemotherapeutic agents.

### ADVANCED UNDERGRADUATE COURSES

301. *Theories of Heredity*: Miss Gardiner.

[302. *Developmental Physiology*: Miss Oppenheimer.]

[303. *Physiology of Micro-organisms*: Mr. Berry.]

[304. *Micro-anatomy*: Miss Gardiner.]

305. *Biochemistry*: Mr. Conner.

## Chemistry

PROFESSOR:

ERNST BERLINER, PH.D., *Chairman*

ASSOCIATE PROFESSOR:

GEORGE L. ZIMMERMAN, PH.D.

ASSISTANT PROFESSORS:

FRANK B. MALLORY, PH.D.

JOSEPH VARIMBI, PH.D.

LECTURER:

FRANCES BONDHUS BERLINER, PH.D.

### *Special Requirements for Graduate Work*

(for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate preparation in Chemistry including courses in general inorganic, analytical (qualitative and quantitative), organic and physical chemistry, college Physics and Mathematics (calculus). Students whose undergraduate training in Chemistry is not entirely adequate may be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

*Major and Allied Subjects.* Students may specialize in either Organic or Physical Chemistry. The allied subject for the Ph.D. may be chosen from the fields of Biochemistry, Mathematics,

Physics, Inorganic Geology and a branch of Chemistry different from that of the major subject. Other combinations may be accepted with the approval of the Graduate Committee and on the recommendation of the Department.

*Language Requirements.* Candidates for the M.A. or Ph.D must offer German, and either French or Russian. The languages are tested by the special type of examination.

*Program and Examination for the M.A.* Candidates will usually offer one seminar in their special field, another seminar or advanced undergraduate course in Chemistry or an allied field and one unit of research. This unit consists of an experimental investigation carried out under the direction of a member of the Department. The Final Examination consists of a four-hour written examination, or a three-hour written and one-hour oral examination.

*Program and Examinations for the Ph.D.* Candidates will normally be expected to devote a large proportion of their time to the execution and interpretation of the experimental work, carried out under the supervision of a member of the Department. They will usually take all seminars offered in their special fields during their stay at Bryn Mawr, in addition to such courses as will give them a broad background in Chemistry. The Preliminary Examination will normally be taken after the experimental work is well advanced. It consists of two four-hour written examinations, one of which is in the major subject and one in the minor subject, and a third, oral examination, which constitutes a defense of a number of research proposals which had been submitted previously by the student. Four such proposals are required, two of which may be related to the student's thesis. For students who offer a minor subject in a department other than Chemistry, equivalent arrangements will be made after consultation with the Department. The Final Examination (oral) is devoted to the subject matter of the student's dissertation.

#### SEMINARS AND GRADUATE COURSES

In order to meet the needs of the students and to offer them as wide a selection of topics as possible, the seminars are arranged in such a way that the same one is usually not repeated

within a three-year period. The topics listed below are given in one-semester seminars, counting one half unit of credit each.

Mr. Berliner: *Organic Chemistry*

Physical-Organic Aspects of Aromatic Chemistry.

Physical Organic Chemistry.

Structure and Physical Properties of Organic Compounds.

Topics in Stereochemistry.

Mrs. Berliner: *Organic Chemistry*

Chemistry of Free Radicals.

Chemistry of Heterocyclic Compounds.

Natural Products.

Mr. Mallory: *Organic Chemistry*

Molecular Orbital Theory.

Organic Photochemistry.

Radical Reactions.

Spectroscopic Analysis in Organic Chemistry.

Mr. Zimmerman: *Physical Chemistry*

Advanced Topics in Thermodynamics.

Chemical Kinetics.

Introduction to Chemical Physics.

Mathematical Methods in Physical Chemistry.

Quantum Theory.

Mr. Varimbi: *Inorganic and Physical Chemistry*

Inorganic Chemistry.

Statistical Thermodynamics.

Theory of Solutions.

*Physiological Chemistry*: See under Biology.

#### SELECTED UNDERGRADUATE COURSES

301 [a and b]. *Inorganic Chemistry*: Mr. Varimbi.

302 [a and b]. *Advanced Organic Chemistry*: Mr. Berliner and Mr. Mallory.

303 [a and b]. *Advanced Physical Chemistry*: Mr. Zimmerman.

*Colloquium*. All members of the Department and the graduate students, and often outside speakers, meet to discuss current publications in chemistry every week.



# Classical and Near Eastern Archaeology

ASSOCIATE PROFESSOR: MACHTELD JOHANNA MELLINK, PH.D.,  
Chairman

ASSISTANT PROFESSOR: ALEXANDER CAMBITOGLOU, PH.D.  
ELLA RIEGEL POST-

DOCTORAL FELLOW: ANN HARNWELL ASHMEAD, PH.D.

INSTRUCTOR: BRUNILDE SISMONDO RIDGWAY, PH.D.

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PROFESSOR OF

ANTHROPOLOGY: FREDERICA DE LAGUNA, PH.D.<sup>1</sup>

## *Special Requirements for Graduate Work*

(for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate major in Archaeology or at least two courses in Archaeology combined with a major in Greek, Latin or History of Art. It is desirable that all students should have some knowledge of Greek.

*Major and Allied Subjects.* Greek Language and Literature; Latin Language and Literature; an ancient Near Eastern Language and Literature; Archaeology of any other ancient Mediterranean or Near Eastern Culture; History of Art; Ancient History; Ancient Numismatics; Anthropology; a science integrated with the work of the major subject.

*Language Requirements.* German and one other modern language tested by either the general or the special examination for the M.A.; for the Ph.D., a thorough reading knowledge of German, tested by the special type of examination, and an adequate reading knowledge of a second foreign language.

*Program and Examination for the M.A.* Three units of work in Archaeology or in Archaeology and an allied field. The Final Examination is written, four hours.

*Program and Examinations for the Ph.D.* There is no fixed course of study or time requirement for the degree; but at least one of the preparatory years should be spent at some Mediterranean center such as Athens or Rome, and at least one summer

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1. On leave of absence for semester I, 1959-60.

should be devoted to European museums. (The Department has in its award the Riegel Fellowship for study abroad.) Before being permitted to take their preliminary examinations, candidates must satisfy their instructors that they are familiar with the general scope and method of archaeological study, including excavational research; that they know where the original source materials are; and that they can make practical use of bibliographical references. They must also satisfy the Department by written examination that they have an adequate general reading knowledge of ancient Greek or an ancient Near Eastern language.

The Preliminary Examination consists of four four-hour papers in such special fields as Greek and Roman sculpture, ancient architecture, Greek vase painting, numismatics, topography of classical sites, Aegean prehistory, Near Eastern archaeology, ancient Italy. One of the papers may be chosen from an allied subject; but none may deal with the same specific field as the dissertation, since this will be included in the final oral examination.

*Cooperation with the Department of Classical Archaeology at the University of Pennsylvania.* Attention is drawn to the courses in Classical Archaeology offered by the University of Pennsylvania. Under the Reciprocal Plan, students at Bryn Mawr College may register for a unit of work at the University of Pennsylvania or pursue research at the University Museum. Reference should be made to the University of Pennsylvania *Bulletin*.

#### SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Miss Mellink:

*Aegean Archaeology.*

*Hittite Art and Archaeology.*

*Oriental Relations of Early Greek Art.*

Mr. Cambitoglou:

*Problems in Greek Sculpture.*

*Problems in Greek Vase-Painting.*

*Relations Between Monumental Painting and Vase-Painting in Ancient Greece.*

### ADVANCED UNDERGRADUATE AND FREE ELECTIVE COURSES

- 202b.\* *Cultural History of Archaeology*: Miss Mellink.  
 203a. *Greek Sculpture*: Mr. Cambitoglou.  
 203b. *Later Greek and Roman Sculpture*: Mr. Cambitoglou.  
 301a. *Ancient Painting*: Mr. Cambitoglou.  
 301b. *Ancient Architecture*: Mrs. Ridgway.  
 [302a. *The Greek Style in Art*: Miss Mellink.]

# Comparative Philology and Linguistics

PROFESSOR OF

ENGLISH PHILOLOGY:   STEPHEN JOSEPH HERBEN, LITT.B.,  
  PH.D.

PROFESSOR OF

ITALIAN: ANGELINE HELEN LOGRASSO, PH.D.

PROFESSOR OF

SPANISH: FRANCISCO AYALA, *D. en D.*

### VISITING PROFESSOR

OF FRENCH: WILLIAM J. ROACH, PH.D.

LECTURER IN

GERMAN: BURGHART WACHINGER, PH.D.

Comparative Philology may be offered as an allied subject for the Ph.D. but not as a major subject.

*Prerequisites.* The prerequisite is a good undergraduate major in any language or literature. For courses in Philology, see statements under the Departments of English, French, German Italian, Spanish.

## Economics

PROFESSORS:	MILDRED B. NORTHROP, PH.D., <i>Chairman</i>
	JOSHUA C. HUBBARD, PH.D. <sup>1</sup>
ASSOCIATE PROFESSOR:	MORTON S. BARATZ, PH.D.
LECTURER:	LAURA E. ROMINE, M.A.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate major or minor in Economics with work in related fields such as History and Political Science. Students whose undergraduate training in Economics is not entirely adequate may be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

*Allied Subjects.* Most subjects in the fields of the other social sciences, History and Philosophy, are acceptable as allied work. Mathematics, Statistics and Accounting are not only acceptable as allies but an adequate knowledge of one or more of these subjects is necessary to advanced work in Economics.

*Language Requirements.* For the Ph.D. two modern languages. For the M.A. two modern languages or one modern language and advanced statistics. The languages are tested by the special type of examination.

*Program and Examination for the M.A.* The program consists of three units of work in Economics or two in Economics and one in an allied field. One unit must be in Economic Theory. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

*Program and Examinations for the Ph.D.* The Preliminary Examination consists of four three-hour written examinations, two of which must be in Economic Theory and The History of Economic Thought. The other two fields are selected by the student in consultation with members of the Department. Candidates for the Ph.D. are expected to have an adequate knowledge of Statistics and Mathematics and in some cases of Accounting. The Final Examination (oral) is devoted to the subject matter of the student's dissertation.

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1. On sabbatical leave for the year 1959-60.

## SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study. Normally the same seminar will not be given two years in succession.

Miss Northrop:

*Comparative Economic Systems.*  
*The Development of Underdeveloped Areas.*  
*The History of Economic Thought.*  
*International Economics.*

Mr. Hubbard:

*Business Cycles and Full Employment.*  
*Contemporary Economic Theory.*  
*Economic Dynamics.*  
*Money and Banking.*

Mr. Baratz:

*Government and Business.*  
*Industrial Structure and Market Behavior.*  
*Prices and Price Theory.*

Mrs. Romine:

*Economic Theory: Macroeconomics.*  
*Labor and Management.*  
*Wages and Wage Theories.*

## SELECTED UNDERGRADUATE COURSES

- 301a. *History of Economic Thought*: Miss Northrop.
- 301b. *Contemporary Economic Thought*: Mrs. Romine.
- 302b. *Comparative Economic Systems*: Miss Northrop.

*Journal Club.* Students and members of the faculty in the Department together with those in the Departments of History and Political Science meet four or five times a year to discuss research in progress, or recent books or projects of interest.

## Education and Child Development

PRESIDENT OF THE

COLLEGE:

KATHARINE ELIZABETH MCBRIDE,  
PH.D., LL.D., L.H.D., Sc.D.

PROFESSOR AND DIRECTOR,

CHILD STUDY INSTITUTE: RACHEL DUNAWAY COX, PH.D.,  
*Chairman*

LECTURER AND DIRECTOR,

THORNE SCHOOL: SUSAN E. MAXFIELD, M.S.

LECTURER:

ETHEL W. MAW, M.S.

ASSISTANT:

LELIA BRODERSEN, M.A.

ASSOCIATE PROFESSOR

OF SOCIAL WORK:

MARY M. ZENDER, M.A., M.S.S.

The program of study prepares for college teaching and research in Educational Psychology and Child Development, for child guidance, for school psychology and for teaching in the schools. The training is carried on in a setting of service to public and laboratory schools and the community at large. Classes, seminars and staff conferences provide opportunity for students from several related disciplines to develop competence in the team approach to the children's specialties in education, psychology and guidance agencies. Trends in physical, intellectual and emotional growth from infancy to maturity are stressed. The chief focus is upon learning in the family and the school.

Work leading to the certificate to teach in the public secondary school is open to students who present some preparation in Psychology and are qualified in a subject matter field. Foundation work for teaching in the elementary school is available. Under the reciprocal plan with the University of Pennsylvania (see page 27) the equivalent of one seminar may be taken at that institution.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate preparation in the liberal arts which must include work in General Psychology. Students whose undergraduate training in Psychology is not adequate will be required to take such undergraduate courses as seem necessary.

*Major and Allied Subjects.* Candidates for either advanced degree are expected to become competent in several different areas within this specialization. These areas are child development,

learning, measurement and guidance, secondary education, the school as a social institution, and history and philosophy of education. For the M.A., two fields are required. For the Ph.D., five fields must be presented. The allied subject may be chosen from the fields of Psychology, Sociology, Anthropology or Philosophy.

*Requirements in Languages and Statistics.* French and German, special type of examination for the Ph.D.; candidates for the M.A. must either (1) pass special or general type examinations in French and German or (2) pass a special or general type examination in French or German and demonstrate a working knowledge of statistics. Candidates for the Ph.D. will be required to demonstrate a working knowledge of statistics. The statistics requirement for both degrees may be satisfied by passing an approved course or an examination.

*Program and Examination for the M.A.* Candidates will normally offer two units of graduate work in Education and a third graduate unit in an allied field. The Final Examination consists of two three-hour written examinations—one in each field offered, and a one-hour oral examination.

*Examination for the Ph.D.* The Preliminary Examination consists of four written examinations in special fields, one may be in an allied field, and an oral examination on the entire field.

#### THE PHEBE ANNA THORNE SCHOOL AND THE CHILD STUDY INSTITUTE

The Phebe Anna Thorne School is maintained by the Department as a laboratory nursery school for normal children where students may observe and assist in the program for three and four year olds. For those preparing for teaching, medical work with children, child welfare or guidance, the school provides opportunity for direct experience with early school development.

The Department also operates the Child Study Institute, a psychological and guidance center where problems of learning and behavior are studied and remedial measures planned and carried out for parents and children. The service is given by a staff of qualified specialists in child psychiatry, psychology, social case work and remedial teaching. Advanced students participate in the work at various levels of responsibility. Referrals from the neurological and pediatric departments of the Bryn Mawr Hospital, from psychiatrists and social agencies give students the opportunity for acquaintance with a diversity of clinical material.

A separate building on the college grounds houses the Thorne School and the Institute with rooms equipped for nursery school teaching and for individual examination of pupils, remedial teaching, play therapy and student observation.

#### SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Miss McBride:

*The American School.*

Mrs. Cox:

*Advanced Clinical Evaluation (including the Projective Techniques).*

*Principles of School Guidance.*

*Problems of Child Development.*

*The Study of the Individual.*

Miss Maxfield:

*Developmental Psychology.*

*Early Childhood Education.*

Mrs. Maw:

*Educational Psychology.*

*History and Philosophy of Education.*

*Research and Measurement in Education and Child Development.*

Miss Zender:

*Communication and the Counselling Process.*

#### SELECTED UNDERGRADUATE COURSES

201a. *Educational Psychology*: Mrs. Cox.

Prerequisite: Psychology 101 or its equivalent. Laboratory two hours per week.

[202a. *Child Psychology*: Miss McBride and Mrs. Cox.]

Prerequisite: Psychology 101. Experience in the Phebe Anna Thorne School required, two hours per week.

301a. *Principles of Teaching in the Secondary School*: Mrs. Maw.

This course satisfies the practice-teaching requirement of most states. Plans for registration should be made in the spring or summer before the student plans to take the course so that appropriate arrangements for the practice-teaching assignment can be made. Laboratory: 12 hours per week supervised practice teaching.



## English

PROFESSORS:	STEPHEN JOSEPH HERBEN, B.LITT., PH.D. K. LAURENCE STAPLETON, A.B., <i>Chairman</i> ARTHUR COLBY SPRAGUE, PH.D. MARY KATHARINE WOODWORTH, PH.D. BETTINA LINN, M.A.
VISITING PROFESSOR:	SAMUEL CLAGGETT CHEW, PH.D., LITT.D.
ASSOCIATE PROFESSOR:	WARNER B. BERTHOFF, PH.D. <sup>1</sup>
ASSISTANT PROFESSORS:	DAVID BONNELL GREEN, PH.D. ISABEL GAMBLE MACCAFFREY, PH.D.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate major in English (or its equivalent) consisting of a critical and historical study of several periods of English Literature. Students working in the mediaeval period must have a reading knowledge of Latin. For other students this is strongly recommended. Students must have had some training in at least one other field of the humanities: a classical or a modern foreign literature, History, the History of Art or Philosophy.

*Allied Subjects.* Any language and literature, classical or modern European; English Philology; American Literature; Philosophy; History, mediaeval or modern; and the History of Art.

*Language Requirements.* French and German tested for the M.A. by the general or the special type of paper; for the Ph.D., by the special type. In special cases, another modern language may be substituted for German, by permission of the Department.

*Program and Examination for the M.A.* Three units of work in English or two in English and one in an allied field. The Final Examination is written, four hours in length.

*Examinations for the Ph.D.* The Preliminary Examination is in five parts: four written (from three to four hours each) and an oral (one to two hours). The candidate whose major interest is

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1. On partial leave for the year 1959-60.

in the mediaeval period must take at least one examination in the modern period; the candidate whose major interest is in the modern period must take at least one examination in the mediaeval period. One examination may be in an allied field. The Final Examination (oral, from one to two hours) is in the field in which the candidate has written her dissertation.

#### SEMINARS AND GRADUATE COURSES

##### *English Literature*

Mr. Herben (One of the following seminars) :

Beowulf and the Old English Lyrics.

Chaucer.

Middle English Romances.

Old English Christian Poetry.

Mr. Chew:

Problems in English Literature of the Romantic Period.

Mr. Sprague (One of the following seminars) :

Restoration Drama.

Shakespeare.

Miss Stapleton:

1959-1960: Studies in Poetry.

1960-1961: Milton.

Miss Woodworth:

1959-1960: Literature of the Eighteenth Century.

1960-1961: Contemporary Literature.

Mr. Green:

1959-1960: The Victorian Period.

Mr. Berthoff:

Nineteenth-Century American Writers.

A Seminar in Philology for students of English is offered in the Department of German (see p. 74).

#### SELECTED UNDERGRADUATE COURSES

- 201. *English Literature of the Middle Ages*: Mr. Herben.
- 202. *Shakespeare*: Mr. Sprague.
- 203. *The Romantic Period*: Mr. Green.
- [204. *The Victorian Period*: Mr. Green.]
- [205. *Representative English Novelists*: Miss Linn.]

207. *English and American Literature of the Last Half-Century*: Miss Woodworth.  
 208. *American Literature*: Mr. Berthoff.  
 212b. *Blake*: Miss Woodworth.  
 213a. *Mediaeval Narrative*: Mr. Herben.  
 214a. *Sixteenth Century Prose*: Mrs. MacCaffrey.  
 [301. *Old English Literature*: Mr. Herben.]  
 [302a. *The Drama from the Beginnings to 1642*: Mr. Sprague.]  
 [303b. *English Poetry from Spenser to Donne*: Mr. Sprague.]  
 304. *The Seventeenth Century*: Miss Stapleton.  
 [305. *The Eighteenth Century*: Miss Woodworth.]

## French

VISITING PROFESSOR:	WILLIAM J. ROACH, PH.D.
ASSOCIATE PROFESSOR:	MARIO MAURIN, PH.D., <i>Chairman</i> <sup>1</sup>
ASSISTANT PROFESSORS:	MICHEL GUGGENHEIM, PH.D. PHILIP KOCH, PH.D.
VISITING LECTURER:	MICHEL M. F. BUTOR, <i>Lic. de Phil.</i> , <i>D.E.S.Ph.</i>

*Special Requirements for Graduate Work*  
 (for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate major in French, based on study in school and at least three years of college French, including some advanced work in literature, with evidence of ability to present reports and carry on discussion in French. Training in Latin corresponding to at least two years' study in school.

*Major and Allied Subjects.* Students may specialize either in Old French Philology and Literature or in Modern French Literature. If the major field is Old French, advanced work in Modern French Literature may be offered as an allied subject and vice versa. The other allied subjects accepted by the Department are: any literature, ancient or modern; Comparative Philology; European History; Philosophy; History of Art.

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1. On sabbatical leave for semester II, 1959-60.

*Language Requirements.* German, and either Italian or Spanish, to be tested by a general paper for the M.A., and a special paper for the Ph.D. Candidates for the M.A. may substitute for the Italian or Spanish examination evidence of extensive training in Mediaeval Latin or Advanced Classical Latin.

*Program and Examination for the M.A.* Candidates will normally offer two units of graduate work in French and a third unit, graduate or undergraduate, in either French or an allied field. The Final Examination consists of a three-hour written examination and a one-hour oral examination, both in French.

*Program and Examinations for the Ph.D.* The Preliminary Examination consists of four papers written in French, and an oral examination conducted in English. Candidates whose major field is Old French are expected to present evidence of a general knowledge of Modern French Literature and to take one examination in that field and vice versa. Before being admitted to the Preliminary Examination candidates must satisfy the Department that they have an adequate command of spoken French.

#### SEMINARS AND GRADUATE COURSES

The introductory course in Old French is offered in each year. Students wishing further work in Old French may attend graduate courses at the University of Pennsylvania. Graduate seminars in selected fields of Modern French Literature are given in each year, so arranged that the same one will not be given in successive years. In 1959-1960 the following seminars will be given:

##### *Old French*

Mr. Roach: Introduction to Old French Philology and Literature.

##### *Modern French Literature*

###### Semester I.

Mr. Koch: *Les Philosophes des XVIII<sup>e</sup> Siècle.*

Mr. Maurin: *Aspects de la solitude dans la littérature française.*

###### Semester II.

Mr. Butor: *Balzac.*

Mr. Guggenheim: *Aspects du souvenir dans la littérature française.*

During the first semester one of the following courses is offered by the Department:

*Problems and Methods of Research in French Literature.*  
*Representative French Books.*

All candidates for the M.A. and Ph.D. degrees in French are advised to elect these courses, which carry no credit.

*Journal Club.* During the second semester members of the Department and graduate students meet at intervals to discuss research in progress, or recent books and articles of interest. Some of these meetings are held jointly with Departments of Italian and Spanish.

#### SELECTED UNDERGRADUATE COURSES

301. *French Poetry from Villon to Valéry:* Mr. Maurin, Mr. Butor.  
 [302. *French Drama:* Mr. Koch, Mr. Maurin.]  
 [303. *The French Novel from 1700 to 1950:* Mr. Guggenheim.]  
 304. *French Essayists and Moralists:* Mr. Koch, Mr. Butor.

## Geology

PROFESSORS:

EDWARD H. WATSON, PH.D.,  
*Chairman*

LINCOLN DRYDEN, PH.D.

DOROTHY WYCKOFF, PH.D.

INSTRUCTOR:

FREDERIC G. LAYMAN, M.S.

*Special Requirements for Graduate Work*  
 (for the general requirements, see pp. 28-34)

*Prerequisites.* A course in General Geology and at least one course from each of the larger fields: Physical Geology and Paleontologic-stratigraphic Geology. Training in the allied sciences of Physics, Chemistry, Biology and Mathematics is necessary.

*Major and Allied Subjects.* Students may specialize in the fields typified by: Mineralogy-Petrology, Paleontology-Stratigraphy or Regional and Structural Geology. The allied subject for the Ph.D. may be either another field of Geology or any one of the other natural sciences or Mathematics; other subjects may be accepted in special cases.

*Language Requirements.* For the M.A. and the Ph.D., German and one other modern language, to be tested by the special type of examination.

*Program and Examination for the M.A.* Three units of work, of which one will usually be a special piece of field or laboratory research. The Final Examination consists of a four-hour written test and a one-hour oral.

*Program and Examinations for the Ph.D.* Candidates will spend a major proportion of their time on a research problem; ordinarily, this will involve a combination of field mapping or collecting, together with laboratory study. The number of units of class work to be taken will depend on the student's preparation. The Preliminary Examination will test general background in Geology, the candidate's special field and either an allied subject or an additional field in Geology.

#### SEMINARS AND GRADUATE COURSES

At least three seminars are offered each year, to be selected from the following:

Mr. Watson: *Petrology*

Selected subjects in the structure, physical chemistry and origin of the igneous rocks.

Miss Wyckoff: *Metamorphism*

The physical and chemical processes of metamorphism, accompanied by regional studies.

Mr. Watson, Miss Wyckoff, Mr. Layman: *Petrographic Methods*

This is largely a course in laboratory instruction and in general will accompany the seminars in Petrology and Metamorphism. Special techniques such as the universal stage, X-ray analysis, mechanical separations from rocks and petrofabric analysis will be taught.

Mr. Dryden: *Stratigraphy*

A study of selected theoretical and practical problems of correlation. Usually conducted in connection with a field problem.

Mr. Watson, Miss Wyckoff: *Structural Geology*

The analysis of regional structures, generally undertaken with reference to a field problem.

Mr. Watson: *Mineralogy*

The optical, chemical and X-ray study of selected mineral groups.

Mr. Dryden: *Sedimentation*

A study of the origin of sedimentary rocks; their source, transportation and deposition.

#### SELECTED UNDERGRADUATE COURSES

- [301. *Structural and Field Geology*: Mr. Watson.]
- 302. *Stratigraphy*: Mr. Dryden.
- 303. *Optical Mineralogy* (first semester) and *Petrology* (second semester): Miss Wyckoff, Mr. Watson.
- [304. *Cartography*: Mr. Watson, Miss Wyckoff.]
- [305. *Geography*: Miss Wyckoff.]
- 306. *The Development of Scientific Thought*: Miss Wyckoff, Miss Lehr, and other members of the Faculty.

## German

ASSOCIATE PROFESSOR:	CHRISTOPH E. SCHWEITZER, PH.D., <i>Chairman</i>
ASSISTANT PROFESSORS:	MARTHA M. DIEZ, M.A. HUGO SCHMIDT, PH.D.
LECTURER:	BURGHART WACHINGER, PH.D.

#### *Special Requirements for Graduate Work*

(for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate major or minor in German, based on at least three years of college German, part of it in advanced courses; adequate reading from German Literature, preferably of the mediaeval period and the eighteenth and nineteenth centuries. All graduate students should normally have had some training in Latin; some knowledge of Greek is desirable for those who wish to major in Germanic Philology.

*Major and Allied Subjects.* Major Subjects: German Literature, Germanic Philology, Old Norse. Allied subjects for those majoring in German Literature: Germanic Philology, any ancient or modern European Literature; any field of European History from

the Middle Ages to the present time; Philosophy; History of Art. For those majoring in Germanic Philology: German Literature; Old Norse, any other Germanic, any Classical, Romance or Slavic Language. For those majoring in Old Norse, the same allied fields as for Germanic Philology with the substitution of Old Norse for Germanic Philology.

Irrespective of the elected allied subject, Ph.D. candidates majoring in German Literature, Germanic Philology or Old Norse must satisfy certain minimum intradepartmental requirements in German Literature and Germanic Philology. In general, the Department would advise German Literature as an allied subject for Germanic Philology or Old Norse, and Germanic Philology as an allied subject for German Literature.

*Language Requirements.* French, tested by the special type of examination, is required for the M.A. and the Ph.D. Knowledge of one or more Germanic dialects is required of Ph.D. candidates. M.A. candidates may substitute for this requirement another modern European language, Greek or evidence of advanced training in Latin.

*Program and Examination for the M.A.* The normal program consists of one unit in German Literature, one in Germanic Philology and a third unit in either of these fields or in an allied field. The Final Examination is written and four hours in length.

*Examination for the Ph.D.* The Preliminary Examination consists normally of three written papers in the major field and one in an allied field and an oral examination.

#### SEMINARS AND GRADUATE COURSES

The courses offered are selected from the following:

Mr. Schweitzer: *German Literature*

German Baroque Literature.

The German Novelle.

Mr. Schmidt:

The Drama of Goethe and Schiller.

Mr. Wachinger: *Germanic Philology*

History of the German Language.

*Old Norse*

Reading of texts. Comparative Grammar.

Saga and Edda.



## SELECTED UNDERGRADUATE COURSES

- [302. *The Classics of the Nineteenth Century*: Mr. Schmidt.]
- 303. *Modern German Literature*: Mr. Schweitzer.
- [304. *Introduction to Germanic Philology*.]
- [305. *Middle High German Literature*.]
- [306. *The German "Novelle"*: Mr. Schmidt.]
- [307. *The German Drama*: Mr. Schweitzer.]

## Greek

PROFESSORS:	RICHMOND LATTIMORE, PH.D., LITT.D., <i>Chairman</i>
	MABEL L. LANG, PH.D. <sup>1</sup>
INSTRUCTORS:	HARRY C. AVERY, M.A.
	ROSAMOND KENT SPRAGUE, PH.D.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate major or minor in Greek, based on at least four years of college Greek, or the equivalent, with representative reading from Greek literature and history which, in the opinion of the Department, provides an adequate basis for graduate work. It is expected that all graduate students in Greek should have some knowledge of Latin.

*Allied Subjects.* Any literature, ancient or modern, Ancient History, Ancient Philosophy, Classical Archaeology, Comparative Philology.

*Language Requirements.* French and German, to be tested by a general paper for the M.A. and by a special paper for the Ph.D.

*Program and Examination for the M.A.* The program consists of two units of graduate work in Greek and a third unit in an allied field. Before admission to the Final Examination candidates must pass an examination in Greek sight translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

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1. On leave of absence for the year 1959-60.

*Examinations for the Ph.D.* Before admission to the Preliminary Examination candidates must pass a rigorous examination in Greek sight translation. The Preliminary Examination consists of four written papers, one of which shall be in an allied subject, and an oral examination. The fields from which the three major papers may be selected include: Epic Poetry, Lyric Poetry, Tragedy, Comedy, the Orators, the Historians, the Pre-Socratics, Plato and various periods of Greek history.

#### SEMINARS AND GRADUATE COURSES

Mr. Lattimore:

*Homer.*

Mr. Avery:

*The End of the Fifth Century.*

#### SELECTED UNDERGRADUATE COURSES

202. *Thucydides and Drama:* Mr. Avery.

[301. *Early Greek Literature: History and Criticism:* Mr. Lattimore, Miss Lang.]

## History

PROFESSORS:

CAROLINE ROBBINS, PH.D.,  
*Chairman*

FELIX GILBERT, PH.D.<sup>1</sup>

ASSOCIATE PROFESSOR:

ARTHUR P. DUDDEN, PH.D.<sup>2</sup>

ASSISTANT PROFESSORS:

RAYMOND F. BETTS, D. d'Univ., PH.D.

DAVID J. HERLIHY, PH.D.

VISITING LECTURER:

HENRY R. WINKLER, PH.D.

INSTRUCTOR:

MARY MAPLES, PH.D.

PROFESSOR OF LATIN:

THOMAS ROBERT SHANNON  
BROUGHTON, PH.D.<sup>3</sup>

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

1. On part-time sabbatical leave for the year 1959-60.

2. On sabbatical leave for the year 1959-60.

3. On leave of absence and sabbatical leave for the years 1959-61.

*Prerequisites.* A good undergraduate preparation in general History, the humanities and the social sciences. Students who wish to work in seminars in the ancient or mediaeval fields must be able to read Latin. Those planning work in Modern European History must have a reading knowledge of one modern language, preferably French or German.

*Major and Allied Subjects.* Students may work in Ancient, Mediaeval or Modern European History as well as in English and American. Most subjects in the field of History, social science, literature and the humanities will be accepted as allied work provided the student's general preparation is acceptable to the Department.

*Language Requirements.* Two languages are required for the M.A. and for the Ph.D. degree. Preference is given to French and German and substitutions for either of these languages may be made only with the consent of the Department. For the M.A., students may take either the special or the general type of examination. For the Ph.D., the special type is required.

*Program and Examination for the M.A.* The program consists of three units of work in History or in History and an allied field. The Final Examination is written and usually four hours in length.

*Program and Examinations for the Ph.D.* All students are expected at some time to take a seminar or course in which some aspects of historiography are studied. The Preliminary Examination tests the student's competence in four general fields of History, or in three fields of History and one field in an allied subject. For example, work in Mediaeval Literature, Art or Philosophy is usually recommended to students of Mediaeval History and one of these may be offered in the Preliminary Examination. Students whose dissertations are in American History will be required to take at least two fields in European History. Students specializing in English History must offer at least two fields of Mediaeval or Modern European History for examination.

#### SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the fullest possible choice for students over a two- or three-year period of study. Normally the same seminar will not meet two years in succession.

[Mr. Broughton: *Ancient History*.]

*Mediaeval and Renaissance History*

Mr. Herlihy: Mediaeval Institutions.

[Mr. Gilbert: Intellectual and Political Problems in the Age of the Renaissance and Reformation.]

*British History*

Miss Robbins: Topics in the History of the Period 1649-1783.

*American History*

[Mr. Dudden: Topics in the History of the United States.]

*Modern European History*

Miss Robbins: Eighteenth Century Life and Thought.

Mr. Betts: Topics in the Political History of the Nineteenth and Twentieth Centuries.

Mr. Winkler: International Affairs in the Modern World.

*Journal Club.* Students and members of the faculty in the Department together with those interested in the Departments of Economics and Political Science meet four or five times a year to discuss research in progress, or recent books and projects, or to entertain visiting scholars.

## SELECTED UNDERGRADUATE COURSES

- 301. *Europe in the Twentieth Century*: Mr. Betts.
- 303a. *The Expansion of the American Nation*: Miss Maples.
- [303b. *The American People in the Recent Past*: Mr. Dudden.]
- [305. *Renaissance and Reformation*: Mr. Gilbert.]
- 306a. *The Enlightenment*: Miss Robbins.
- 306b. *Great Historians*: Miss Robbins.

## History of Art

PROFESSOR: ALEXANDER COBURN SOPER, M.F.A., PH.D.,  
*Chairman*

VISITING PROFESSOR: CHARLES MITCHELL, M.A., B.LITT.

ASSOCIATE PROFESSORS: JAMES W. FOWLE, PH.D.

WILLIAM C. LOERKE, M.F.A., PH.D.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* A good undergraduate preparation in Art History is usually required, but exceptional students with training in other fields, such as History or Philosophy, may be admitted. In such cases, the first year of graduate work will be spent in taking undergraduate courses offered by the Department. A reading knowledge of at least one modern language other than English, preferably French or German, is a virtual necessity.

*Allied Subjects.* With the permission of the Department, students may work in the fields of Classical and Near Eastern Archaeology, History, Philosophy, Anthropology and Literature, all such programs being integrated with the area of the student's major interest.

*Language Requirements.* Two modern languages are required for both the M.A. and Ph.D. degrees. Preference is given to German and French, but substitutions may be made with the approval of the Department. For the M.A., students may take either the special or the general type of examination. For the Ph.D., the special type is required.

*Program and Examination for the M.A.* Three units of graduate work are required for the degree, one of which may be in an allied field. An extended paper, usually growing out of the work of one seminar, is required in addition to the Final Examination. The examination may be either written (four hours), or written and oral (three hours—one hour), and will deal with a field of concentration determined by consultation with the Department.

*Program and Examination for the Ph.D.* A minimum of two full years of graduate work is customary before candidates may expect to take their Preliminary Examination. The examination consists usually of four papers dealing broadly with the history of art since the classical period. Emphasis is placed upon those fields in which the student has specialized, one of them being the period dealt with in the dissertation. One examination may be in an allied field, but the program for such work must be arranged with the major Department.

Properly qualified candidates, upon consultation with both Departments, may offer a joint program in Art History and Classical and Near Eastern Archaeology.

## SEMINARS AND GRADUATE COURSES

The subject matter of the seminars is arranged to give the student a wide choice of material over a two- or three-year period. Normally the seminars are changed every year. Emphasis is placed upon the methodology of research rather than a coverage of all fields of Art History.

Mr. Soper:

*Buddhist Art in India and the Far East.*

Mr. Mitchell:

*Aspects of the Classical Tradition in Renaissance Art.*

Mr. Fowle:

*Problems in French Nineteenth Century Painting.*

Mr. Loerke:

*Problems in Eastern and Western Art of the Early Mediaeval Period.*

Note: Seminars in Classical and Near Eastern Archaeology are open to properly qualified students.

## SELECTED UNDERGRADUATE COURSES

- 202. *Italian Art*: Mr. Mitchell.
- 203. *Mediaeval Art*: Mr. Loerke.
- 301.\* *Art of the Far East*: Mr. Soper.
- 302. *Modern Art*: Mr. Fowle.

## History of Religion

PROFESSOR OF LATIN:

AGNES KIRSOPP MICHELS, PH.D.

PROFESSOR OF PHILOSOPHY

AND RELIGION:

GEDDES MACGREGOR, D.D., D.PHIL.,  
D.ès L., LL.B.

No graduate work is offered in History of Religion.

The courses listed are open to graduate students and may be taken for graduate credit with the permission of the major Department.

## UNDERGRADUATE COURSES

- 103. *Literary History of the Bible*: Mrs. Michels.

The history of the Bible, with special emphasis on analysis of text and on literary forms.

- 201a. *Comparative Religion*: Mr. MacGregor.  
 201b. *History of Christian Thought*: Mr. MacGregor.  
 203a. *Philosophy of Religion*: Mr. MacGregor.  
 This course is also listed as Philosophy 203.  
 203b. *Mediaeval Philosophy*: Mr. MacGregor.

## Italian

PROFESSOR:

ANGELINE H. LOGRASSO, PH.D.,  
*Chairman*

Appointment to be announced

*Special Requirements for Graduate Work*  
 (for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate major or minor in Italian or its equivalent in ability to read, write and speak Italian together with a knowledge of Italian classical literature which, in the opinion of the Department, provides an adequate basis for graduate work.

*Allied Subjects.* Any language or literature, European History, History of Art, Philosophy, Music, Political Science; other fields of importance for the candidate's work will be considered.

*Language Requirements.* French and German, to be tested by a general paper for the M.A. and a special paper for the Ph.D. In exceptional cases, determined by the special interests of the student, Latin or another language may be substituted for one of the two required languages.

*Program and Examination for the M.A.* Three units of work in Italian or in Italian and an allied field. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

*Examination for the Ph.D.* The Preliminary Examination consists of four written papers and an oral examination. One paper must be in the field of Provençal preferably Provençal and Old French. One paper may be in an allied field determined by the

special interests of the student. Before taking the Preliminary Examination the candidate must demonstrate proficiency in spoken Italian.

#### SEMINARS AND GRADUATE COURSES

The seminar given is selected from the following. Normally the same seminar does not meet two years in succession and is usually not repeated within a three-year period.

Miss Lograsso:

*Dante.*

*Literary Criticism.*

*Manzoni.*

*Old Italian.*

*Provençal.*

*Studies in Italian Romanticism.*

#### SELECTED UNDERGRADUATE COURSES

102c.\* *Dante in English Translation:* Miss Lograsso.  
*The New Life and Divine Comedy.*

[103c.\* *Literature of the Italian Renaissance in English Translation:* Miss Lograsso.]

201. *Classics in Italian Literature:* Miss Lograsso.

Reading and explanation of texts, with a study of literary history.

[202. *Dante:* Miss Lograsso.]

The *Vita Nuova* and *Divina Commedia*, with some attention to the minor works. This course is open to anyone with a reading knowledge of Italian.

[203. *Readings in Modern Italian Literature:* Instructor to be announced.]

[302c. *The Italian Language:* Miss Lograsso.]  
Advanced work in composition.

[303. *Italian Literature of the Rinascimento:* Miss Lograsso.]

[304. *Italian Literature of the Romantic Period:* Instructor to be announced.]



## Latin

PROFESSORS:	THOMAS ROBERT SHANNON BROUGHTON, PH.D., <i>Chairman</i> <sup>1</sup> BERTHE MARIE MARTI, PH.D. AGNES KIRSOPP MICHELS, PH.D.
INSTRUCTORS:	LYDIA HALLE, PH.D. GABRIELE SCHOEPFLICH HOENIGSWALD, M.A.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate major or minor in Latin, based on study in school and at least three years of college Latin, part of it in advanced courses; representative reading from Latin Literature of the classical period which, in the opinion of the Department, provides an adequate basis for graduate work. It is desirable that all graduate students in Latin should have some knowledge of Greek.

*Allied Subjects.* Any literature, ancient or modern, including Mediaeval Latin Literature; Ancient History and, for students whose major interest is Mediaeval Latin, Mediaeval History; Classical Archaeology; Classical Philology. For most students the Department recommends Greek as the allied subject.

*Language Requirements.* French and German, to be tested by a general paper for the M.A. and a special examination for the Ph.D. In addition a reading knowledge of Greek is required for the Ph.D.

*Program and Examination for the M.A.* Candidates will normally offer two units of graduate work in Latin and a third unit, graduate or undergraduate, in an allied field. Before admission to the Final Examination candidates must pass an examination in Latin sight translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

*Examinations for the Ph.D.* Before admission to the Preliminary Examination candidates must pass a rigorous examination in Latin sight translation. Candidates who do not offer Greek as

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1. On leave of absence and sabbatical leave for the years 1959-61.

an allied field must pass an examination in sight translation of Greek before they are admitted to the Final Examination. The Preliminary Examination consists of four written papers and an oral examination. Candidates whose major interest is Classical Latin are expected to offer in their Preliminary Examination Latin Literature of the classical period (Livius Andronicus to Tacitus) and, in most cases, one subsidiary field within the major—for instance a period of Roman History, Roman Religion, the History of Classical Scholarship, Epigraphy or Palaeography. In addition candidates are expected to offer an allied field (usually Greek). Candidates whose major interest is Mediaeval Latin are expected to show in their Preliminary Examination a broad knowledge of classical Latin Literature, but the emphasis in the examinations will be determined by the special interests of the student.

#### SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Mr. Broughton:

[*The Augustan Empire.*

*Cicero's Correspondence.*

*History and Literature of the Second Century B.C.*

*Latin Inscriptions.*]

Miss Marti:

*History of Classical Scholarship.*

*Latin Palaeography and Textual Criticism.*

*Literature of the Silver Age.*

*Literature of the Twelfth Century.*

Mrs. Michels:

*Augustan Poetry.*

*Lucretius and Catullus.*

*Roman Satire.*

*The Works of Vergil.*

#### SELECTED UNDERGRADUATE COURSES

[301a. *Vergil's Aeneid*: Mrs. Michels.]

[301b. *Tacitus and Livy*: Mr. Broughton.]

302a. *Cicero and Caesar*: Mrs. Michels.

302b. *Lucretius*: Miss Halle.

## Mathematics

PROFESSORS:	JOHN C. OXTOBY, M.A., <i>Chairman</i> MARGUERITE LEHR, PH.D.
ASSOCIATE PROFESSOR:	FREDERIC C. CUNNINGHAM, PH.D.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* A good undergraduate preparation in Mathematics, or in Mathematics and Physics.

*Major and Allied Subjects.* Students may specialize in any of the broad divisions of Mathematics: Algebra, Analysis, Geometry, or Mathematical Physics, but are expected also to acquire a well-rounded knowledge of Mathematics. Certain courses in Physics, Chemistry or Philosophy (logic) are accepted as allied work.

*Language Requirements.* French and German, tested by the special type of examination for both the M.A. and the Ph.D.

*Program and Examination for the M.A.* The program consists of three units of work in Mathematics, or in Mathematics and an allied field. Advanced undergraduate courses which supplement the student's preparation may under certain conditions be taken for graduate credit. The Final Examination is usually oral and one hour in length.

*Program and Examinations for the Ph.D.* Candidates will take such courses and seminars as are needed to provide a sufficiently broad foundation. As they progress they will devote an increasing proportion of their time to individual study and research under the direction of a member of the Department. The Preliminary Examination is taken after the student is well advanced and usually consists of three or four written examinations intended to test the candidate's breadth of knowledge and understanding of the structure of Mathematics as a whole. It may or may not include an oral examination. The Final Examination is oral and is devoted to the candidate's special field and the subject of the dissertation.

## SEMINARS AND GRADUATE COURSES

At least three graduate courses or seminars are offered each year. Additional courses of directed reading and research can be arranged. The seminars offered in any year are selected to meet the needs of the individual students. Some may be offered for one semester only. They are usually selected from the following:

Mr. Cunningham:

*Functional Analysis.*

*General Topology.*

*Linear Spaces.*

*Theory of Functions of a Complex Variable.*

Miss Lehr:

*Abstract Algebra.*

*Differential Geometry.*

*Probability Theory.*

*Projective Geometry and Lattice Theory.*

*Theory of Estimation and Tests of Hypothesis.*

Mr. Oxtoby:

*Ergodic Theory.*

*Mathematical Physics.*

*Measure Theory.*

*Point Set Topology.*

*Theory of Functions of a Real Variable.*

*Journal Club.* A joint Mathematical Colloquium with Haverford and Swarthmore Colleges and the University of Pennsylvania meets approximately every two weeks for the presentation of current research by local or visiting mathematicians.

## SELECTED UNDERGRADUATE COURSES

301. *Advanced Calculus:* Mr. Cunningham.

302b. *Introduction to Geometric Theories:* Miss Lehr.

303a. *Introduction to Abstract Algebra:* Miss Lehr.

[304a. *Theory of Probability and Statistics:* Miss Lehr.]

[305b. *Topics in Differential Geometry:* Miss Lehr.]

[310. *Theory of Functions of a Complex Variable:* Mr. Oxtoby.]

[311b. *Differential Equations:* Mr. Oxtoby.]

## Music

### PROFESSOR AND DIRECTOR OF

ENSEMBLE GROUPS: AGI JAMBOR, M.A.

VISITING PROFESSOR: HORACE ALWYNE, F.R.M.C.M.

ASSOCIATE PROFESSOR: ROBERT L. GOODALE, A.B., B.MUS.,  
A.A.G.O., *Chairman*

ASSISTANT PROFESSOR: SYLVIA W. KENNEY, B.MUS., PH.D.

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DIRECTOR OF ORCHESTRA: WILLIAM H. REESE, PH.D.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* Two years of Harmony, Counterpoint and Analysis, three years of History and Appreciation of Music, of which at least one should be in an advanced course, and a reading knowledge of one modern language, preferably German. Candidates must have a sufficient knowledge of pianoforte or organ playing to be able to play music of the technical difficulty of a Bach figured chorale.

*Allied Subjects.* Any modern language or literature, History, History of Art, History of Religion, Philosophy.

*Language Requirements.* Two modern languages are required for the M.A. degree, preference being given to German and French. The languages are tested by the general type of paper. For candidates for the Ph.D. degree two languages are required, one of which must be German. These are tested by examinations of the special type.

*Program and Examination for the M.A.* The program consists of three units of work in Music. The Final Examination is written and four hours in length.

*Examinations for the Ph.D.* The Preliminary Examination consists of four papers in the major field, or three papers in the major field and one in an allied field, and an oral examination. The oral examination covers the subject matter of the dissertation.

## SEMINARS AND GRADUATE COURSES

Miss Kenney:

*Mediaeval and Early Renaissance Music: a Study of Style and Paleography.**Music of the Late Renaissance and Baroque.*

Mr. Goodale:

*Music of the Twentieth Century.**Theory and Analysis.*

Mme Jambor:

*The Interpretation of Music.*

A prerequisite for this seminar is the ability to perform on a musical instrument.

Mr. Alwyne:

*The Music of England.**The Nineteenth Century.*

## SELECTED UNDERGRADUATE COURSES

201. *The Romantic Period*: Mr. Alwyne.202. *Advanced Theory and Analysis*: Mr. Goodale.203c. *Bach*: Mme Jambor204c. *The Classical Period*: Mme Jambor.[301a. *Opera and Music Drama*: Miss Kenney.][301b. *Contemporary Music*: Mr. Goodale.]302a. *Mediaeval Music*: Miss Kenney.302b. *Renaissance and Baroque Music*: Miss Kenney.303a. *Orchestration*: Mr. Goodale.304c. *Interpretation of Keyboard Music, Seventeenth Century to the Present*: Mme Jambor.

Membership in the Ensemble Groups, the Orchestra and the College Chorus is open to Graduate Students. Participation by students in the Department in one or more of these organizations is strongly urged.

# Philosophy

PROFESSORS:

MILTON CHARLES NAHM, B.LITT.,

PH.D., *Chairman*

GEDDES MACGREGOR, D.D., D.PHIL.,

*D. ès L., LL.B.*

JOSÉ MARIA FERRATER MORA, *Lic.F.L.*

ISABEL SCRIBNER STEARNS, PH.D.

VISITING PROFESSOR:

PAUL SCHRECKER, PH.D., LL.D.

ASSOCIATE PROFESSOR:

HUGUES LEBLANC, PH.D.

LECTURER:

GEORGE L. KLINE, PH.D.

*Special Requirements for Graduate Work*

(for the general requirements, see pp. 28-34)

*Prerequisites.* In general, an undergraduate major in Philosophy. Students whose undergraduate training does not include a major in Philosophy or whose undergraduate major work is not adequate may be required to take such undergraduate courses as the Department considers necessary.

*Major and Allied Subjects.* Students may major in either historical or systematic branches of Philosophy. Allied subjects: another field of Philosophy, Biology, Chemistry, Economics, English, French, Greek, History, Latin, Mathematics, Music, Physics, Political Science, Psychology, Sociology and Anthropology.

*Language Requirements.* French and German. In special cases, with the recommendation of the Department, a substitution may be made of one other modern language. For the M.A., students may take either the special or the general type of examination; for the Ph.D., the special type is required.

*Program and Examination for the M.A.* Three units of work in Philosophy or in Philosophy and an allied field. The Final Examination is usually written and four hours in length.

*Examinations for the Ph.D.* The Preliminary Examination consists of four written papers in the major and allied fields and an oral examination.

## SEMINARS AND GRADUATE COURSES

A minimum of three seminars, historical and systematic, is offered each year. The sequence of the seminars listed below will be adjusted according to the needs of the students.

Mr. Ferrater Mora:

*Continental Rationalism in the Seventeenth Century.*

The Scientific Revolution; Descartes and Cartesianism; Malebranche; Spinoza; Leibniz.

*Nineteenth Century Philosophy.*

Nineteenth century philosophic thought from positivism to phenomenology.

*Types of Philosophy.*

A study of the various ways of grouping philosophic systems, with an analysis of philosophic methods.

Mr. Nahm:

*Aesthetics.*

A systematic and historical analysis of problems in the philosophy of art.

*Ethics.*

The Ethics of Kant and Hegel; or The History of English Ethics; or Henry Sidgwick and Contemporary British Moralists.

*Kant.*

*Critique of Pure Reason.*

Miss Stearns:

*Epistemology.*

An historical and systematic study of the function of reason and other agencies in knowledge.

*Metaphysics.*

A study of such problems as time, the one and the many, the individual, appearance and reality.

*Plotinus.*

A detailed study of the *Enneads*.

Mr. Leblanc:

*British Empiricism.*

The philosophies of Locke, Berkeley and Hume.

*Logic.*

A systematic study of deductive or inductive logic.



*The Theory of Meaning.*

Detailed study of meaning in the light of developments in modern logic.

Mr. Schrecker:

*Leibniz.*

A study of his main writings in logic, metaphysics, and epistemology, with particular emphasis on the unity of his thought.

*Journal Club.* Students have the privilege of becoming auxiliary members of the Fullerton Club, which meets each month at the Deanery, and at which papers are read by members of the faculties of Bryn Mawr, Swarthmore, Haverford and other nearby colleges, and the University of Pennsylvania.

SELECTED UNDERGRADUATE COURSES

- 201a. *German Idealism*: Mr. Ferrater Mora.
- 202a. *Logic*: Mr. Leblanc.
- 203a. *Philosophy of Religion*: Mr. MacGregor.
- 203b. *Mediaeval Philosophy*: Mr. MacGregor.
- 301a. *Aesthetics*: Mr. Nahm.
- 301b. *Theory of Knowledge*: Mr. Leblanc.
- 302a. *Plato*: Miss Stearns.
- [302b. *Philosophy of History*: Mr. Ferrater Mora.]
- [303b. *Contemporary Philosophy*: Mr. Ferrater Mora.]
- [304b. *Aristotle*: Mr. Ferrater Mora.]

## Physics

PROFESSOR:	WALTER C. MICHELS, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	ROSALIE C. HOYT, PH.D. JOHN R. PRUETT, PH.D.
ASSISTANT PROFESSOR:	CHARLES MILLER, PH.D.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate major in Physics or in a field of study closely allied to Physics (e.g. Mathematics, Chemistry, Engineering). Students who have not majored in Physics will usu-

ally find it necessary to take some undergraduate courses before entering graduate seminars.

*Allied Subjects.* Candidates for the degree of Doctor of Philosophy are in general expected to offer Mathematics as an allied subject. They may substitute Chemistry, Biology or Geology if their mathematical training is accepted as adequate for their work in Physics.

*Language Requirement.* The two languages required for the M.A. and Ph.D. degrees will ordinarily be chosen by the student to include one each from two of the following categories: (a) German; (b) Russian; (c) French, Italian or Spanish. The examination will be of the special type.

*Program and Examination for the M.A.* An oral qualifying examination must be passed before the student is admitted to candidacy. The subject matter of the examination will include only material ordinarily covered in undergraduate college Physics courses, but the student will be expected to handle this material on a reasonably mature level.

Each candidate is expected to have completed Physics 304 or its equivalent. The three units of work offered for the degree will ordinarily include one unit of Experimental Physics and at least one graduate seminar in Theoretical Physics. The paper will usually consist of a report on work done in connection with the unit of Experimental Physics.

The M.A. examination is a one-hour oral examination.

*Program and Examination for the Ph.D.* Each candidate must have completed Physics 304 or its equivalent and have passed the oral qualifying examination described above before being recommended for candidacy.

The Preliminary Examination is intended to test the candidate's general background and to determine whether this background is broad and deep enough to serve as a preparation for original research work in a specialized field. In general, two years of full or part-time graduate work should prepare the student for this examination and candidates for the Ph.D. are urged to submit themselves for examination at this stage of their work, unless informed that weaknesses in their undergraduate preparation make a delay desirable. The examination will consist of two four-hour written examinations, one problem set, and an oral examination lasting approximately one hour.

Each of the two four-hour examinations will cover one of the following fields of physics, to be chosen by the Department: (1) Classical Mechanics, including Relativity. (2) Thermodynamics and Statistical Mechanics. (3) Electricity and Magnetism. (4) Wave Phenomena, including both Optical and Acoustical Waves. (5) Quantum Mechanics. (6) Atomic and Nuclear Structure. The student devotes approximately twelve hours to direct work on the problem set over a three-day period. Any books, periodicals, notes, etc. may be used in connection with the problem set. The oral examination is devoted to general Physics.

Each full-time graduate student is expected to carry on some experimental work each year. Unless the candidate has demonstrated adequate acquaintance with Experimental Physics in other ways, the research leading to the dissertation must be, at least in part, experimental.

#### SEMINARS

One or two graduate seminars in Theoretical Physics are offered each year. In addition, a seminar in Experimental Physics is arranged individually for students desiring it, and generally serves as an introduction to a research problem.

Mr. Michels, Miss Hoyt, Mr. Pruett: *Experimental Physics*.

Mr. Pruett:

1959-1960: *Quantum Mechanics*. Necessity for the quantum hypothesis. The Schroedinger and Heisenberg formulations with applications to atomic structure. The Dirac approach with applications to Relativistic Electron Theory and the Quantum Theory of Radiation. Prerequisite: An advanced undergraduate course in Mechanics or in Theoretical Physics.

Miss Hoyt:

1959-1960: *Chemical Physics*. Chemical and phase equilibria, interatomic and intermolecular forces, chemical bonding, molecular structure. Prerequisite: Quantum Mechanics.

Mr. Pruett:

1960-1961: *Nuclear Physics*. An introductory study of classical nuclear physics followed by applications of Quantum Mechanics to nuclear problems and associated high energy phenomena. Some Quantum Electrodynamics and Meson Theory will be included. Prerequisite: Quantum Mechanics or its equivalent.

Mr. Miller: *Theoretical Physics*

1960-1961: *Electromagnetic Theory*. Maxwell's Equations, applications to waves subject to various boundary conditions, transmission lines, wave guides, radiating systems. Prerequisite: An advanced undergraduate course in Electricity and Magnetism or in Theoretical Physics.

Mr. Michels:

1961-1962: *Physics of the Solid State*. Classification and characteristics of solids, theory of mechanical, electrical, thermal and magnetic properties. Prerequisites: Quantum Mechanics and Electromagnetic Theory. Either may be taken concurrently.

*Colloquium*. All members of the Department and all graduate students meet weekly for the discussion of current problems.

#### SELECTED UNDERGRADUATE COURSES

- 201a. *Introduction to Electricity and Magnetism*: Miss Hoyt.
- 201b. *Introduction to Optics*: Miss Hoyt.
- 301a. *Classical and Statistical Mechanics*: Mr. Miller.
- 302b. *Atomic and Nuclear Structure*: Mr. Miller.
- 304. *Introduction to Theoretical Physics*: Mr. Michels.
- 305c. *Physical Measurements*: Miss Hoyt and Mr. Miller.
- [351.\* *Application of Physics to Biology and Chemistry*: Miss Hoyt.]

## Political Science

*The Caroline McCormick Slade Department of Political Science*

PROFESSOR: ROGER HEWES WELLS, PH.D.,  
*Chairman*

ASSOCIATE PROFESSORS: PETER BACHRACH, PH.D.  
GERTRUDE C. K. LEIGHTON, A.B., LL.B.<sup>1</sup>

ASSISTANT PROFESSOR: MELVILLE T. KENNEDY, JR., PH.D.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

---

1. On partial leave of absence for semester I, 1959-60.

*Prerequisites.* Good undergraduate training in Political Science and related subjects.

*Major and Allied Fields.* The major fields in Political Science are Political Theory, Comparative Government, American Government and Constitutional Law, International Law and Organization and Public Administration. Allied fields may be chosen in Anthropology and Sociology, Economics, History, Philosophy or Psychology. Candidates for the Ph.D. are expected to prepare themselves in four fields, one of which may be an allied field.

*Language Requirements.* Two modern languages are tested by written examinations. The M.A. language examinations are of the general or special type; those for the Ph.D. are of the special type.

*Program and Examination for the M.A.* The program consists of three units of work in Political Science, but a unit from an allied field may be substituted for one of these. The Final Examination is written.

*Program and Examination for the Ph.D.* Candidates are expected to offer four fields, one of them being the field in which the dissertation is done. The other three fields are tested by preliminary written and oral examinations. The fourth field and the dissertation are covered in the final oral examination.

#### SEMINARS

Seminars are offered in the major fields of Political Science. Those which are not bracketed are scheduled for 1959-1960.

Mr. Wells:

[*Comparative Government: Problems of Federalism.*]

[*Problems of Public Administration.*]

*Topics in Western Political Thought.*

Mr. Bachrach:

*American Constitutional Law.*

Miss Leighton:

*The World Community and Law.*

Mr. Kennedy:

*Topics in Chinese Political and Social Development:*

1911-1949.

*Journal Club.* Students are expected to attend the History, Economics and Political Science Journal Club. This meets from time to time during the year to discuss research in progress, recent books and other topics of scholarly interest.

#### SELECTED UNDERGRADUATE COURSES

- 303b. *France and Germany*: Mr. Wells.  
 305b. *American Political Theory*: Mr. Bachrach.  
 306a. *Law and Society*: Miss Leighton.  
 307b. *The Problem of Power in Contemporary Society*: Mr. Bachrach, Mr. Baratz.

## Psychology

PROFESSOR:	RACHEL DUNAWAY COX, PH.D.
ASSOCIATE PROFESSORS:	MORTON EDWARD BITTERMAN, PH.D., Chairman
	DONALD ROBERT BROWN, PH.D.
	ROBERT SIMON DAVIDON, PH.D. <sup>1</sup>
VISITING LECTURERS:	SEYMOUR FESHBACH, PH.D.
	PETER MADISON, PH.D.
	LEO JOSEPH POSTMAN, PH.D.
LECTURER:	RICHARD CHARLES GONZALEZ, PH.D.

*Special Requirements for Graduate Work*  
 (for the general requirements, see pp. 28-34)

*Prerequisites.* Undergraduate training in Psychology is recommended, but outstanding applicants with training only in related fields may be accepted. Students who have not majored in Psychology as undergraduates usually will find it necessary to devote a substantial portion of the first year to undergraduate courses. All applicants residing in the United States at the time of application must submit a score on the Miller Analogies Test.

*Major and Allied Subjects.* The Department offers broad training in Psychology, with opportunity for specialized experience in the principal areas of application. Work in Psychology may be coordinated with work in one of the following allied areas:

---

1. On sabbatical leave for the year 1959-60.

Anthropology, Biology, Education, Mathematics, Philosophy, Political Science, Physics, and Sociology. Students interested primarily in Child Psychology normally major in Education.

*Language Requirements.* Candidates for the M.A. must pass an examination either of the general or the special type in one of the following languages: French, German, Russian. (Only one language is necessary because of the requirement in Statistics and Experimental Design.) Candidates for the Ph.D. must pass examinations of the special type in two of the three languages.

*Program and Examinations for the M.A.* Each new student may be asked to take an assessment examination in Psychology. If performance on this examination warrants, the student is admitted to graduate seminars. If it does not, the student is asked to complete his preparation at the undergraduate level. Sometime before final approval of the Master's paper, each candidate must pass a written examination in Statistics and Experimental Design. The Final Oral Examination, one hour in length, deals with the Master's paper and related topics.

*Program and Examination for the Ph.D.* Candidates are expected to devote a large portion of their time to supervised research. The Preliminary Examination consists of five written papers, one in each of the following areas: Sensation and Perception, Learning and Thinking, Personality and Social Psychology, Tests and Measurements, and History of Psychology. A qualifying examination in Statistics and Experimental Design precedes the Preliminary Examination. The Final Oral Examination deals with the dissertation and related topics. Students preparing for clinical work meet the same requirements as all other students and in addition devote one year to an internship in an approved setting.

#### SEMINARS AND GRADUATE COURSES

The needs of the students determine which seminars and graduate courses are offered each year. Those offered most often are listed below.

Mr. Bitterman:

*Comparative Psychology.*

*Learning.*

*Physiological Psychology.*

Mr. Brown:

*Emotion and Motivation.*

*Personality.*

*Psychopathology.*

*Social Psychology.*

Mrs. Cox:

*Advanced Clinical Evaluation.*

*Problems in Child Development.*

Mr. Davidon:

*Advanced Statistics.*

*Conceptual Processes.*

*History of Psychology.*

*Perception.*

#### SELECTED UNDERGRADUATE COURSES

201a. *Social Psychology*: Mr. Brown.

202b. *Comparative Psychology*: Mr. Bitterman.

204a. *Experimental Methods and Statistics*: Mr. Gonzalez.

205b. *Perception*: Mr. Postman.

301a. *Learning and Thinking*: Mr. Bitterman.

302b. *Psychological Testing*: Mrs. Cox.

303a. *Psychology of the Normal Personality*: Mr. Madison.

304b. *Psychology of the Abnormal Personality*: Mr. Feshbach.

## Russian

ASSOCIATE PROFESSOR:

FRANCES DE GRAAFF, PH.D., *Chairman*

LECTURERS:

GEORGE L. KLINE, PH.D.

OLGA LANG (Graduate, University of  
Moscow)

INSTRUCTOR:

RUTH PEARCE, PH.D.

PROFESSOR OF ENGLISH

BETTINA LINN, M.A.

*Prerequisites.* An undergraduate major or minor in Russian with knowledge of Russian Literature and ability to read and speak Russian.



*Allied Subjects.* Any language or literature, European History, Political Science.

*Language Requirements.* French and German, to be tested by the general paper for the M.A. and the special paper for the Ph.D. In special cases the Department may accept other languages.

*Program and Examination for the M.A.* Three units of work in Russian or in Russian and an allied field. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

*Examination for the Ph.D.* The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination.

#### SEMINARS

Seminars offered are selected from the following. Normally the same seminar will not be given two years in succession.

Miss de Graaff:

*Pushkin and Lermontov.*

*Serbo-Croatian.*

Mr. Kline:

*Russian Critics of the Nineteenth Century.*

Mrs. Pearce:

*History of the Russian Language.*

*Old Church Slavonic.*

#### SELECTED UNDERGRADUATE COURSES

- 201. *Readings in Russian Literature:* Mrs. Lang.
- 302. *Pushkin and His Time:* Miss de Graaff.
- 303. *Russian Literature of the Twentieth Century:* Mr. Kline.

## Social Work and Social Research

*The Carola Woerishoffer Graduate Department  
of Social Work and Social Research*

PROFESSOR:	KATHERINE D. K. LOWER, Ph.D., <i>Director of the Department</i>
ASSOCIATE PROFESSORS:	HERTHA KRAUS, Ph.D. BERNARD ROSS, M.S.S.A., Ph.D. MARY MARGARET ZENDER, M.A., M.S.S. EDMUND V. MECH, M.S.S., Ph.D.
ASSISTANT PROFESSOR:	GEORGE K. LEVINGER, Ph.D.
VISITING LECTURER:	HERMAN M. SOMERS, Ph.D.
LECTURERS:	RUTH OLIVER STALLFORT, M.S. JEANNE L. WERTZ, Ph.D. JEAN D. HARING, M.A., M.S.W.
SPECIAL LECTURERS:	WALTER C. KLINGENSMITH, M.D. FERDINAND A. BONAN, M.D. ARTHUR NOYES, M.D. CALVIN F. SETTLAGE, M.D. ROBERT PAUL, M.D.
INSTRUCTOR:	JANE COLLINS KRONICK, M.S.

Bryn Mawr awards the degrees of Doctor of Philosophy and Master of Social Service in the Graduate Department of Social Work and Social Research.\* The Department is open to qualified graduates in liberal arts of colleges or universities of recognized standing.

*Prerequisites.* Psychology and the social sciences, including Economics, Political Science, History, Sociology and Anthropology, provide basic preparation. At least one general course in each field is important, as well as concentration in one as a major field. A basic course in Statistics is also desirable. In general, applicants for the Ph.D. are expected to have completed work for a Master's degree, or its equivalent, in social work.

The program leading to the Ph.D. degree is designed primarily for social workers who wish to prepare for research, teaching and

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\* The prerequisites and program required for the degree of Master of Social Service are described on pp. 33-34. The statement here refers only to the Ph.D. in Social Work and Social Research.

administration in the broad field of social welfare. The curriculum for the Ph.D. degree includes work in the three following areas of study: Social Welfare, the Social Sciences, and Research Methods.

The specific program of study is planned to meet the needs of the individual student, including course work in the Department of Social Work and Social Research and in other Departments of the Graduate School, which would usually be Psychology, Sociology and Anthropology, Economics, Education and Child Development, or Political Science. The major field will be selected from the fields of social welfare or research. The allied field or fields may be selected from social welfare or from the social sciences.

*Major and Allied Fields.* The major and allied fields may be selected from the field of Social Work. At the same time, some work in one of the allied fields of Sociology, Psychology, Anthropology or Economics, selected with a view to its contribution to the major field of the student's interest, is required. For the degree, substantial work in Statistics is also required.

*Language Requirements.* By special action of the faculty, a reading knowledge of only one language is required for the Ph.D. in Social Work. The language required is French, but in special cases another language may be substituted.

*Program and Examinations.* The program of study is individually planned to cover major and allied fields. Seven units of work will normally be suggested as a minimum. The Preliminary Examination in major and allied fields consists of four written papers and an oral examination testing the candidate's general knowledge of the fields.

A *Bulletin* of the Department is issued biennially, containing descriptions of requirements and courses offered. A copy may be obtained by writing to the Director of the Department.

## Sociology and Anthropology

PROFESSOR:	FREDERICA DE LAGUNA, PH.D., <i>Chairman</i> <sup>1</sup>
ASSOCIATE PROFESSOR:	EUGENE V. SCHNEIDER, PH.D.
VISITING LECTURER:	MARVIN E. WOLFGANG, PH.D.
LECTURER:	EDWARD B. HARPER, PH.D.
INSTRUCTOR:	JANE GOODALE, PH.D. <sup>2</sup>

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* A good undergraduate preparation in Sociology and/or Anthropology. Some undergraduate training in History, or Psychology, or in another social science, is also desirable. Students whose undergraduate training is not entirely adequate may be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

*Major and Allied Subjects.* Students will specialize in either Sociology or Anthropology, but may be expected to do some work in the other field. For other allied subjects, see the special requirements for the Ph.D. in Anthropology and for the Ph.D. in Sociology.

*Language Requirements.* Candidates for the Ph.D. in either Sociology or Anthropology, and for the M.A. in Anthropology, must offer two modern languages, preference being given to German as one of these. For the M.A. in Sociology, one modern language and Statistics may be offered instead of two languages. The languages are tested by the special type of examination.

*Program and Examination for the M.A.* The program consists of three units of work, of which one is usually taken in the allied field within the Department. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

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1. On leave of absence for semester I, 1959-60.

2. Semester I, 1959-60.

*Program and Examinations for the Ph.D.* All students are expected to take the equivalent of at least one year's graduate work at another institution approved by the Department. (For exchange arrangements with other institutions, see page 27.) The Preliminary Examination will consist of four three-hour written papers and an oral examination of one hour.

The Preliminary Examination for candidates for the *Ph.D. in Anthropology* will be in (1) Anthropological Theory and History of Anthropology, (2) the allied field within the Department, such as Sociological Theory, Comparative Social Institutions, etc., or an allied field outside the Department, such as Social Psychology, (3) and (4) two examinations in more specialized fields in Anthropology, such as Primitive Religion, Cultural Dynamics, Ethnography or Archaeology of one major Culture Area, etc. In addition, students will be expected to be familiar with the principles of two of the following subjects: Physical Anthropology and/or Human Paleontology, Prehistoric or American Archaeology, Linguistics. These requirements may be satisfied by courses taken at any institution approved by the Department, or competence may be tested by examination. The Preliminary Examination for candidates for the *Ph.D. in Sociology* will be in (1) Sociological Theory, (2) Comparative Social Institutions, (3) an allied field within the Department, such as Anthropological Theory, Cultural Dynamics, etc., or an allied field outside the Department, such as Social Psychology, Economics, Political Science, History, (4) a specialized subject within the field of Sociology. In addition, the student will be expected to be familiar with Statistics and the methods of Social Research.

#### SEMINARS AND GRADUATE COURSES

Depending upon the needs of the students these may be offered either as full year courses (1 unit of credit), or as semester courses ( $\frac{1}{2}$  unit of credit). The seminars offered in 1959-60 will be:

Miss Goodale:

*Primitive Cultures of Australia* (Semester I).

Mr. Harper:

*Primitive Political Organizations and Legal Processes*  
(Semester I).

Miss de Laguna:

*Problems of Circumpolar Archaeology and Ethnology*  
(Semester II).

Mr. Schneider:

*Sociological Theory* (Semesters I and II).

Mr. Wolfgang: (*To be announced*, Semester II).

#### SELECTED UNDERGRADUATE COURSES

203a. *Primitive Culture*: Mr. Harper.

203b. *Primitive Society*: Mr. Harper.

206a. *Industrial Sociology*: Mr. Schneider.

206b. *Race Relations*: Mr. Schneider.

301a. *Social Theory*: Mr. Wolfgang.

301b. *Cultural Theory*: Miss de Laguna.

Also available at the University of Pennsylvania under the Reciprocal Plan are graduate courses and seminars in Anthropology and in Sociology. Students are also urged to join the Philadelphia Anthropological Society which meets once a month at the University of Pennsylvania Museum.

## Spanish

DEAN OF THE

COLLEGE:

DOROTHY NEPPER MARSHALL, PH.D.

PROFESSOR:

FRANCISCO AYALA, *D. en D.*, *Chairman*

LECTURER:

WILLARD FAHRENKAMP KING, PH.D.

INSTRUCTOR:

MIGUEL GONZALEZ-GERTH, M.A.

PROFESSOR OF

PHILOSOPHY:

JOSÉ MARIA FERRATER MORA, *Lic. F.L.*

#### *Special Requirements for Graduate Work*

(for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate major in Spanish; representative reading from Spanish Literature of the Middle Ages, Golden Age and Contemporary Period. Spanish-American Literature may be offered in addition.

*Allied Subjects.* Any literature, ancient or modern, including Mediaeval Latin Literature; European or Spanish-American History; Classical or Romance Philology.

*Language Requirements.* For the M.A. two romance languages other than Spanish, or one romance language and German, to be tested by a general paper. For the Ph.D. German and French

to be tested by a special paper; in special cases the Department may accept other languages. The Ph.D. candidate's preparation must give evidence of adequate knowledge of Latin; in cases when the student's preparation is insufficient she will have to include the study of Latin in her graduate program.

*Program and Examination for the M.A.* The program consists of two units of graduate work in Spanish and a third unit, graduate or undergraduate, in an allied field. Before admission to the Final Examination candidates must prove their ability to speak Spanish. The Final Examination consists of a three-hour written part and an oral of one hour.

*Examinations for the Ph.D.* The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination. Suitable related fields should be discussed as early as possible with the member of the Department with whom the candidate plans to work on her dissertation.

#### SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study. Normally the same seminar will not be given two years in succession. Two from among the following will be given every year.

Mrs. King:

*Modern Spanish Drama* (Semester I).

Theatre from Romanticism Through Garcia Lorca.

Mr. Ayala:

*The Picaresque Novel* (Semester I).

The Evolution of the Genre from *Lazarillo de Tormes*  
Through the Seventeenth Century.

Mr. Ayala:

*The Age of Cervantes* (Semester II).

*The Modern Novel in Spain and Latin America*  
(Semester II).

#### SELECTED UNDERGRADUATE COURSES

302a. *Modern Essay in Spain and Latin America*: Mr. Ayala.

302b. *Lyric Poetry*: Mr. Ayala.

[303. *Modern Spanish Novel*.]

304b. *Modern Spanish Theatre*: Mrs. King.

[305a. *Age of Cervantes*.]





## How to Get to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

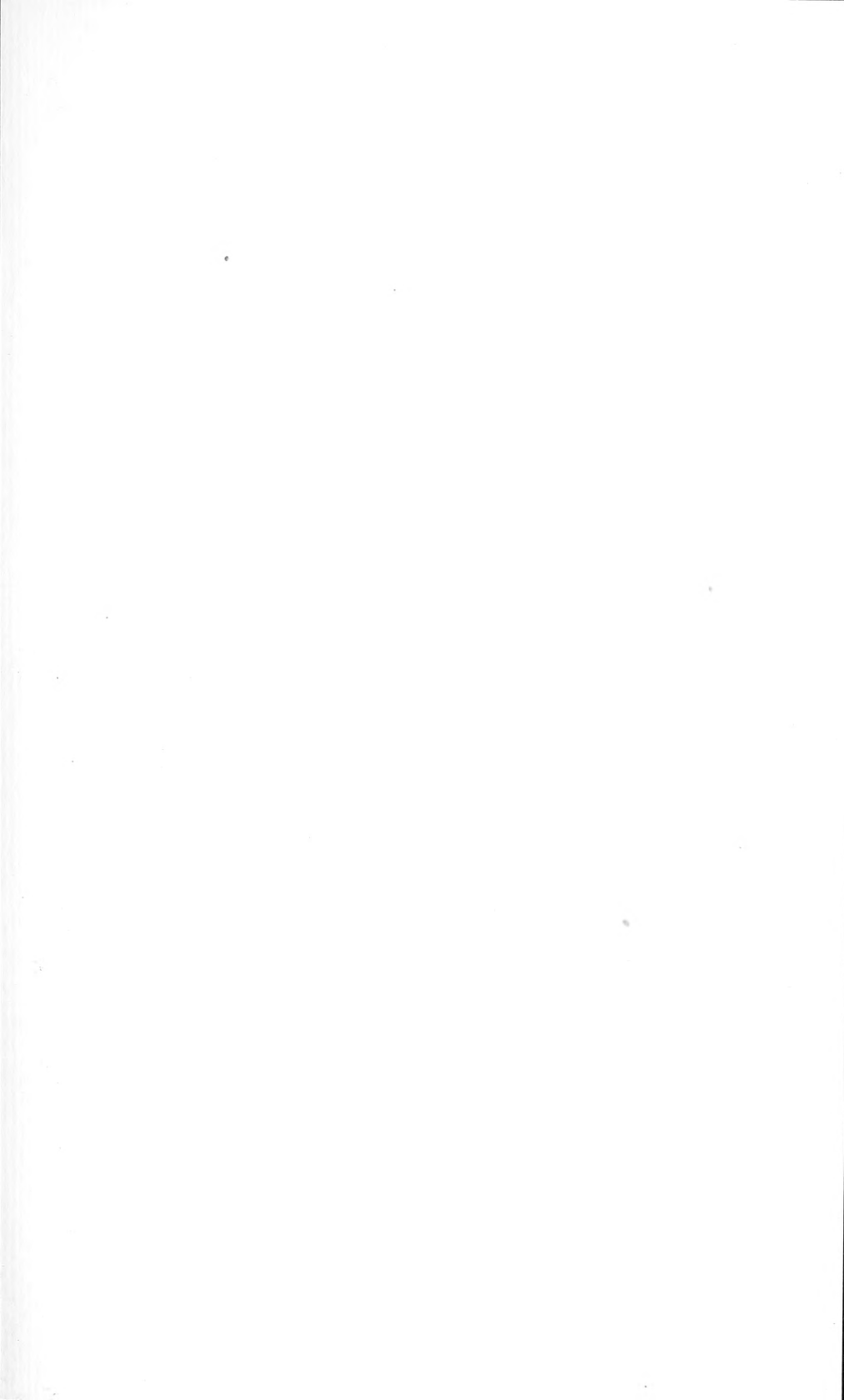
*By railroad:* Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.

*By automobile:* From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43), turning right at Pa. #23, which is 3.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues.

*By air:* Passengers arrive at the Philadelphia International Airport and can use the airport limousine to Philadelphia or take a taxi directly to Bryn Mawr, a distance of 14 miles.





# BRYN MAWR

THE GRADUATE SCHOOL 1959-1960

75<sup>th</sup>

(ANNIVERSARY)

# BRYN MAWR

COLLEGE CALENDAR

1959 | 1960

UNDERGRADUATE COURSES



# Bryn Mawr College Calendar

## UNDERGRADUATE COURSES

ISSUE FOR THE SESSION OF

1959-1960



AUGUST 1959

Volume LII

Number 3

VISITORS to the College are welcome, and when the College is in session student guides are available to show visitors the campus. The College offices are open Monday through Friday from nine until five and on Saturdays from nine until one. From mid-June until after Labor Day the offices are closed on Saturdays.

Whenever possible, visitors are urged to write in advance for appointments. Prospective students are encouraged to secure information about the College from local College Representatives, whose names and addresses are listed on pages 129-139.

### CORRESPONDENCE

The Post Office address is Bryn Mawr College, Bryn Mawr, Pennsylvania.

Correspondence regarding the following subjects should be addressed to:

The President

General interests of the College

The Dean

Academic work, personal welfare and health of the students

The Director of Admissions

Admission to the Undergraduate School and entrance scholarships

The Dean of the Graduate School

Admission to the Graduate School and graduate scholarships

The Director of Halls

Rooms in the halls of residence

The Comptroller

Payment of bills

The Director of the Bureau of Recommendations

Recommendations for positions and inquiries regarding students' self-help

The Alumnae Secretary

Regional Scholarships and loan fund

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BRYN MAWR COLLEGE CALENDAR. Published December, July, August and September by Bryn Mawr College, Bryn Mawr, Pa.

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## Photographs

*Air View of Campus; The Phebe Anna Thorne School in West House; Biology Building in the Science Center; The M. Carey Thomas Library.*

1959	1960		1961
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
JULY	JANUARY	JULY	JANUARY
..... 1 2 3 4	..... 1 2	..... 1 2	1 2 3 4 5 6 7
5 6 7 8 9 10 11	3 4 5 6 7 8 9	3 4 5 6 7 8 9	8 9 10 11 12 13 14
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19 20 21 22 23 24 25	17 18 19 20 21 22 23	17 18 19 20 21 22 23	22 23 24 25 26 27 28
26 27 28 29 30 31 ..	24 25 26 27 28 29 30	24 25 26 27 28 29 30	29 30 31 .....
	31 .....	31 .....	
AUGUST	FEBRUARY	AUGUST	FEBRUARY
..... 1	.. 1 2 3 4 5 6	.. 1 2 3 4 5 6	..... 1 2 3 4
2 3 4 5 6 7 8	7 8 9 10 11 12 13	7 8 9 10 11 12 13	5 6 7 8 9 10 11
9 10 11 12 13 14 15	14 15 16 17 18 19 20	14 15 16 17 18 19 20	12 13 14 15 16 17 18
16 17 18 19 20 21 22	21 22 23 24 25 26 27	21 22 23 24 25 26 27	19 20 21 22 23 24 25
23 24 25 26 27 28 29	28 29 .....	28 29 30 31 .....	26 27 28 .....
30 31 .....			
SEPTEMBER	MARCH	SEPTEMBER	MARCH
.... 1 2 3 4 5	.... 1 2 3 4 5	.... 1 2 3	..... 1 2 3 4
6 7 8 9 10 11 12	6 7 8 9 10 11 12	4 5 6 7 8 9 10	5 6 7 8 9 10 11
13 14 15 16 17 18 19	13 14 15 16 17 18 19	11 12 13 14 15 16 17	12 13 14 15 16 17 18
20 21 22 23 24 25 26	20 21 22 23 24 25 26	18 19 20 21 22 23 24	19 20 21 22 23 24 25
27 28 29 30 .....	27 28 29 30 31 .....	25 26 27 28 29 30 ..	26 27 28 29 30 31 ..
OCTOBER	APRIL	OCTOBER	APRIL
..... 1 2 3	..... 1 2	..... 1	..... 1
4 5 6 7 8 9 10	3 4 5 6 7 8 9	2 3 4 5 6 7 8	2 3 4 5 6 7 8
11 12 13 14 15 16 17	10 11 12 13 14 15 16	9 10 11 12 13 14 15	9 10 11 12 13 14 15
18 19 20 21 22 23 24	17 18 19 20 21 22 23	16 17 18 19 20 21 22	16 17 18 19 20 21 22
25 26 27 28 29 30 31	24 25 26 27 28 29 30	23 24 25 26 27 28 29	23 24 25 26 27 28 29
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NOVEMBER	MAY	NOVEMBER	MAY
1 2 3 4 5 6 7	1 2 3 4 5 6 7	.... 1 2 3 4 5	.. 1 2 3 4 5 6
8 9 10 11 12 13 14	8 9 10 11 12 13 14	6 7 8 9 10 11 12	7 8 9 10 11 12 13
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22 23 24 25 26 27 28	22 23 24 25 26 27 28	20 21 22 23 24 25 26	21 22 23 24 25 26 27
29 30 .....	29 30 31 .....	27 28 29 30 .....	28 29 30 31 .....
DECEMBER	JUNE	DECEMBER	JUNE
.... 1 2 3 4 5	..... 1 2 3 4	..... 1 2 3	..... 1 2 3
6 7 8 9 10 11 12	5 6 7 8 9 10 11	4 5 6 7 8 9 10	4 5 6 7 8 9 10
13 14 15 16 17 18 19	12 13 14 15 16 17 18	11 12 13 14 15 16 17	11 12 13 14 15 16 17
20 21 22 23 24 25 26	19 20 21 22 23 24 25	18 19 20 21 22 23 24	18 19 20 21 22 23 24
27 28 29 30 31 .....	26 27 28 29 30 .....	25 26 27 28 29 30 31	25 26 27 28 29 30 ..

# College Calendar

## 1959-1960

1959

### FIRST SEMESTER

- September 24 (*Thursday*). Halls of residence open to entering class at 8 A.M.
- September 26 (*Saturday*). Halls of residence open to all returning undergraduate students at 8 P.M.
- September 28 (*Monday*). Work of the 75th academic year begins at 9:00 A.M.  
Convocation at 4:30 P.M.
- November 25 (*Wednesday*). Thanksgiving holiday begins after last class
- November 30 (*Monday*). Thanksgiving holiday ends at 9 A.M.
- December 17 (*Thursday*). Christmas vacation begins at 12:45

1960

- January 5 (*Tuesday*). Christmas vacation ends at 9 A.M.
- January 15 (*Friday*). Last day of lectures
- January 18 (*Monday*). Collegiate examinations begin
- January 28 (*Thursday*). Collegiate examinations end

### SECOND SEMESTER

- February 1 (*Monday*). Work of the second semester begins at 9 A.M.
- March 24 (*Thursday*). Spring vacation begins after last class
- April 5 (*Tuesday*). Spring vacation ends at 9 A.M.
- May 13 (*Friday*). Last day of lectures
- May 16 (*Monday*). Collegiate examinations begin
- May 27 (*Friday*). Collegiate examinations end
- May 31 (*Tuesday*). Conferring of degrees and close of the 75th academic year

*The Academic Schedule is listed at end of book.*

# The Trustees of Bryn Mawr College

THOMAS RAEBURN WHITE, *President*

J. EDGAR RHODS

ELIZABETH GRAY VINING<sup>1</sup>

## *Vice-Presidents*

JOHN E. FORSYTHE  
*Treasurer*

AGNES BROWN LEACH<sup>2</sup>

*Secretary*

J. TYSON STOKES  
*Assistant Treasurer*

MARGARET TYLER PAUL<sup>3</sup>

*Assistant Secretary*

## *Trustees*

THOMAS RAEBURN WHITE

FREDERIC C. SHARPLESS

RICHARD MOTT GUMMERE

ELIZABETH GRAY VINING<sup>1</sup>

AGNES BROWN LEACH<sup>2</sup>

HENRY JOEL CADBURY

MILLCENT CAREY MCINTOSH<sup>4</sup>

JOHN E. FORSYTHE

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ELIZABETH GRAY VINING<sup>1</sup>

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*Alumnae Director, 1958-1963*

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*Alumnae Director, 1959-1964*

MARION EDWARDS PARK, *by invitation*

*President Emeritus of Bryn Mawr College*

NANCY HOUGH SMITH, *by invitation*<sup>14</sup>

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MISS MCBRIDE, *Chairman*  
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MRS. INGERSOLL  
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  4. Mrs. Rustin McIntosh
  5. Mrs. Talbot Aldrich
  6. Mrs. John D. Gordan, Jr.
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13. Mrs. Willard N. Boyden
14. Mrs. E. Baldwin Smith

# Faculty and Staff

ACADEMIC YEAR, 1959-1960

KATHARINE ELIZABETH MCBRIDE, PH.D. (Bryn Mawr College),  
LL.D., L.H.D., Sc.D., *President of the College*

MARION EDWARDS PARK, PH.D. (Bryn Mawr College), LL.D.,  
*President Emeritus of the College*

DOROTHY NEPPER MARSHALL, PH.D. (Bryn Mawr College), *Dean  
of the College*

ELEANOR A. BLISS, Sc.D. (Johns Hopkins University), Sc.D., *Dean  
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ANNIE LEIGH BROUGHTON, M.A. (Bryn Mawr College), *Dean of  
Freshmen and Director of Admissions*<sup>1</sup>

MARGARET TYLER PAUL, A.B. (Bryn Mawr College), *Assistant to  
the President*

JANET MARGARET AGNEW, B.L.S., M.A. (University of Manitoba),  
*Librarian*

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of  
Physical Education*

ELIZABETH HUMESTON, M.D. (Cornell University), *College Physi-  
cian*

RHYS CARPENTER, PH.D. (Columbia University), Litt.D., *Pro-  
fessor Emeritus of Classical Archaeology*

REGINA KATHARINE CRANDALL, PH.D. (University of Chicago),  
*Professor Emeritus of English Composition*

GRACE MEAD ANDRUS DE LAGUNA, PH.D. (Cornell University),  
*Professor Emeritus of Philosophy*

MAX DIEZ, PH.D. (University of Texas), *Professor Emeritus of  
German Literature*

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1. On part-time sabbatical leave for the year 1959-60.

- CHARLES GHEQUIERE FENWICK, PH.D. (Johns Hopkins University), LL.D., *Professor Emeritus of Political Science*
- GRACE FRANK, A.B. (University of Chicago), *Professor Emeritus of Old French*
- MYRA RICHARDS JESSEN, PH.D. (Bryn Mawr College), *Professor Emeritus of German*
- HELEN TAFT MANNING, PH.D. (Yale University), LL.D., *Professor Emeritus of History*
- CORNELIA LYNDE MEIGS, A.B. (Bryn Mawr College), *Professor Emeritus of English Composition*
- FRITZ MEZGER, PH.D. (University of Berlin), *Professor Emeritus of Germanic Philology*
- MARY HAMILTON SWINDLER, PH.D. (Bryn Mawr College), LL.D., *Professor Emeritus of Classical Archaeology*
- LILY ROSS TAYLOR, PH.D. (Bryn Mawr College), LITT.D., *Professor Emeritus of Latin*
- ANNA PELL WHEELER, PH.D. (University of Chicago), SC.D., *Professor Emeritus of Mathematics*
- MARY SUMMERFIELD GARDINER, PH.D. (Bryn Mawr College), *Professor of Biology, Acting Secretary of the Faculty, 1959-1961*
- HORACE ALWYNE, F.R.M.C.M. (Royal Manchester College of Music), *Professor Emeritus of Music and Visiting Professor*
- ERNST BERLINER, PH.D. (Harvard University), *Professor of Chemistry*
- L. JOE BERRY, PH.D. (University of Texas), *Professor of Biology*
- ELEANOR A. BLISS, SC.D. (Johns Hopkins University), SC.D., *Dean of the Graduate School and Professor of Biology*
- THOMAS ROBERT SHANNON BROUGHTON, PH.D. (Johns Hopkins University), *Professor of Latin*<sup>1</sup>
- SAMUEL CLAGGETT CHEW, PH.D. (Johns Hopkins University), LITT.D., *Professor Emeritus of English Literature and Visiting Professor*

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1. On leave of absence and sabbatical leave for the years 1959-61.

- RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania),  
*Professor of Education and Psychology*
- FREDERICA DE LAGUNA, PH.D. (Columbia University), *Professor of Anthropology*<sup>1</sup>
- LINCOLN DRYDEN, PH.D. (Johns Hopkins University), *Professor of Geology*
- JOSÉ MARIA FERRATER MORA, *Licenciado en Filosofía* (University of Barcelona), *Professor of Philosophy*
- FELIX GILBERT, PH.D. (University of Berlin), *Professor of History*<sup>2</sup>
- STEPHEN JOSEPH HERBEN, B.LITT., PH.D. (Princeton University),  
*Professor of English Philology*
- JOSHUA C. HUBBARD, PH.D. (Harvard University), *Professor of Economics*<sup>3</sup>
- AGI JAMBOR, M.A. (Royal Academy of Budapest), *Professor of Music and Director of Ensemble Groups*
- RICHMOND LATTIMORE, PH.D. (University of Illinois), LITT.D.,  
*Paul Shorey Professor of Greek*
- MARGUERITE LEHR, PH.D. (Bryn Mawr College), *Professor of Mathematics*
- BETTINA LINN, M.A. (Bryn Mawr College), *Margaret Kingsland Haskell Professor of English*
- ANGELINE HELEN LOGRASSO, PH.D. (Radcliffe College), *Professor of Italian*
- KATHERINE D. K. LOWER, PH.D. (University of Wisconsin), *Professor of Social Work and Social Research*
- GEDDES MACGREGOR, D.D. (Oxford University), *D.ès L.* (University of Paris), LL.B. (University of Edinburgh), *Rufus M. Jones Professor of Philosophy and Religion*
- BERTHE MARIE MARTI, PH.D. (Bryn Mawr College), *Professor of Latin*

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1. On leave of absence for semester I, 1959-60.

2. On part-time sabbatical leave for the year 1959-60.

3. On sabbatical leave for the year 1959-60.



- AGNES KIRSOPP LAKE MICHELS, PH.D. (Bryn Mawr College), *Professor of Latin*
- WALTER C. MICHELS, PH.D. (California Institute of Technology), *Marion Reilly Professor of Physics*
- CHARLES MITCHELL, M.A., B.LITT. (Oxford University), *Richard M. Bernheimer Visiting Professor of History of Art*
- MILTON CHARLES NAHM, B.LITT., PH.D. (University of Pennsylvania), *Professor of Philosophy*
- MILDRED BENEDICT NORTHROP, PH.D. (Columbia University), *Professor of Economics*
- JANE MARION OPPENHEIMER, PH.D. (Yale University), *Professor of Biology*<sup>1</sup>
- JOHN C. OXTOBY, M.A. (University of California), *Professor of Mathematics*
- WILLIAM J. ROACH, PH.D. (University of Chicago), *Visiting Professor of Old French*
- CAROLINE ROBBINS, PH.D. (University of London), *Professor of History*
- PAUL SCHRECKER, PH.D. (University of Berlin), LL.D., *Visiting Professor of Philosophy*
- ALEXANDER COBURN SOPER, III, M.F.A., PH.D. (Princeton University), *Professor of History of Art*
- ARTHUR COLBY SPRAGUE, PH.D. (Harvard University), *Mary E. Garrett Alumnae Professor of English Literature*
- K. LAURENCE STAPLETON, A.B. (Smith College), *Professor of English and of Political Theory*
- ISABEL SCRIBNER STEARNS, PH.D. (Bryn Mawr College), *Professor of Philosophy*
- EDWARD H. WATSON, PH.D. (Johns Hopkins University), *Professor of Geology*
- ROGER HEWES WELLS, PH.D. (Harvard University), *Professor of Political Science*

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1. On sabbatical leave for the year 1959-60.

*Bryn Mawr College*

MARY KATHARINE WOODWORTH, PH.D. (Bryn Mawr College),  
*Professor of English*

DOROTHY WYCKOFF, PH.D. (Bryn Mawr College), *Professor of  
Geology*

FRANCISCO AYALA, *Doctor en Derecho* (University of Madrid),  
*Professor-elect of Spanish*

MABEL LOUISE LANG, PH.D. (Bryn Mawr College), *Associate Pro-  
fessor and Professor-elect of Greek*<sup>1</sup>

PETER BACHRACH, PH.D. (Harvard University), *Associate Pro-  
fessor of Political Science*

MORTON SACHS BARATZ, PH.D. (Yale University), *Associate Pro-  
fessor of Economics*

WARNER B. BERTHOFF, PH.D. (Harvard University), *Associate  
Professor of English*<sup>2</sup>

MORTON EDWARD BITTERMAN, PH.D. (Cornell University), *Asso-  
ciate Professor of Psychology*

DONALD ROBERT BROWN, PH.D. (University of California), *Asso-  
ciate Professor of Psychology*

ROBERT SIMON DAVIDON, PH.D. (University of Pennsylvania),  
*Associate Professor of Psychology*<sup>3</sup>

FRANCES DE GRAAFF, PH.D. (University of Leyden), *Associate  
Professor of Russian, on joint appointment with Haverford  
College*

ARTHUR P. DUDDEN, PH.D. (University of Michigan), *Associate  
Professor of History*<sup>3</sup>

JAMES W. FOWLE, PH.D. (Harvard University), *Associate Profes-  
sor of History of Art*

ROBERT L. GOODALE, B.MUS. (Yale University), A.A.G.O., *Asso-  
ciate Professor of Music*

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1. On leave of absence for the year 1959-60.

2. On partial leave of absence for the year 1959-60.

3. On sabbatical leave for the year 1959-60.

ROSALIE C. HOYT, PH.D. (Bryn Mawr College), *Associate Professor of Physics*

HERTHA KRAUS, PH.D. (University of Frankfurt), *Carola Woerishoffer Associate Professor of Social Work and Social Research*

HUGUES LEBLANC, PH.D. (Harvard University), *Associate Professor of Philosophy*

GERTRUDE C. K. LEIGHTON, LL.B. (Yale University), *Associate Professor of Political Science*<sup>1</sup>

MACHTELD JOHANNA MELLINK, PH.D. (University of Utrecht), *Associate Professor of Classical Archaeology*

JOHN R. PRUETT, PH.D. (Indiana University), *Associate Professor of Physics*

BERNARD ROSS, M.S.S.A. (University of Pittsburgh), PH.D. (University of Michigan), *Associate Professor of Social Work and Social Research*

EUGENE V. SCHNEIDER, PH.D. (Harvard University), *Associate Professor of Sociology*

MARY MARGARET ZENDER, M.A. (Lawrence College), M.S.S. (Smith College), *Associate Professor of Social Work*

GEORGE L. ZIMMERMAN, PH.D. (University of Chicago), *Associate Professor of Chemistry*

FREDERIC C. CUNNINGHAM, JR., PH.D. (Harvard University), *Associate Professor-elect of Mathematics*

WILLIAM C. LOERKE, M.F.A., PH.D. (Princeton University), *Associate Professor-elect of History of Art*

MARIO MAURIN, PH.D. (Yale University), *Assistant Professor and Associate Professor-elect of French*<sup>2</sup>

EDMUND V. MECH, PH.D. (Indiana University), M.S.S. (Bryn Mawr College), *Associate Professor-elect of Social Work and Social Research*

CHRISTOPH E. SCHWEITZER, PH.D. (Yale University), *Associate Professor-elect of German*

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1. On partial leave of absence for semester I, 1959-60.

2. On sabbatical leave for semester II, 1959-60.

- RAYMOND F. BETTS, *D.d'Univ.* (University of Grenoble), PH.D. (Columbia University), *Assistant Professor of History*
- ROBERT HAWES BUTMAN, M.A. (University of North Carolina), *Assistant Professor of English on the Theresa Helburn Fund, and on joint appointment with Haverford College*
- ALEXANDER CAMBITOGLU, PH.D. (University of London), *Assistant Professor of Classical Archaeology*
- ROBERT L. CONNER, PH.D. (Indiana University), *Assistant Professor of Biology*
- MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*
- DAVID BONNELL GREEN, PH.D. (Harvard University), *Assistant Professor of English*
- MICHEL GUGGENHEIM, PH.D. (Yale University), *Assistant Professor of French*
- DAVID JOSEPH HERLIHY, PH.D. (Yale University), *Assistant Professor of History*
- MELVILLE T. KENNEDY, JR., PH.D. (Harvard University), *Assistant Professor of Political Science*
- SYLVIA W. KENNEY, PH.D. (Yale University), *Assistant Professor of Music*
- PHILIP KOCH, PH.D. (Harvard University), *Assistant Professor of French*
- GEORGE K. LEVINGER, PH.D. (University of Michigan), *Assistant Professor of Social Work and Social Research*
- ISABEL GAMBLE MACCAFFREY, PH.D. (Radcliffe College), *Assistant Professor of English*
- FRANK BRYANT MALLORY, PH.D. (California Institute of Technology), *Assistant Professor of Chemistry*
- JOSEPH VARIMBI, PH.D. (University of Pennsylvania), *Assistant Professor of Chemistry*
- CHARLES MILLER, PH.D. (California Institute of Technology), *Assistant Professor-elect of Physics*
- HUGO SCHMIDT, PH.D. (Columbia University), *Assistant Professor-elect of German*

- FRANCES BONDHUS BERLINER, PH.D. (Bryn Mawr College), *Part-time Lecturer in Chemistry*
- MICHEL MARIE FRANÇOIS BUTOR, *Licencié de Philosophie, D.E.S.Ph.* (University of Paris), *Visiting Lecturer in French*
- SEYMOUR FESHBACH, PH.D. (Yale University), *Visiting Lecturer in Psychology for Semester II*
- RICHARD C. GONZALEZ, PH.D. (University of Maryland), *Post-Doctoral Fellow in Psychology and Part-time Lecturer for Semester I*
- JEAN D. HARING, M.A. (Ohio State University), M.S.W. (University of Michigan), *Lecturer in Social Work and Social Research*
- EDWARD B. HARPER, PH.D. (Cornell University), *Lecturer in Sociology and Anthropology on joint appointment with Haverford College*
- WILLARD FAHRENKAMP KING, PH.D. (Brown University), *Lecturer in Spanish*
- GEORGE L. KLINE, PH.D. (Columbia University), *Lecturer in Russian and Philosophy*
- OLGA LANG, Graduate (University of Moscow), *Part-time Lecturer in Russian*
- PETER MADISON, PH.D. (Harvard University), *Visiting Lecturer in Psychology for Semester I*
- ETHEL W. MAW, PH.D. (University of Pennsylvania), *Part-time Lecturer in Education*
- SUSAN MAXFIELD, M.S. (Syracuse University), *Director of Phebe Anna Thorne School and Part-time Lecturer in Education*
- LEO JOSEPH POSTMAN, PH.D. (Harvard University), *Visiting Lecturer in Psychology for Semester II*
- LAURA ESTABROOK ROMINE, M.A. (Columbia University), *Lecturer in Economics*
- HERMAN M. SOMERS, PH.D. (Harvard University), *Visiting Lecturer in Social Work and Social Research*
- RUTH OLIVER STALLFORT, M.S. (Simmons College School of Social Work), *Lecturer in Psychiatric Social Work*
- BURGHART WACHINGER, PH.D. (University of Munich), *Lecturer in German*
- JEANNE L. WERNTZ, PH.D. (University of Pennsylvania), *Part-time Lecturer in Social Research*

- HENRY R. WINKLER, PH.D. (University of Chicago), *Visiting Lecturer in History*
- MARVIN WOLFGANG, PH.D. (University of Pennsylvania), *Visiting Lecturer in Sociology and Anthropology*
- ANN EVANS BERTHOFF, M.A. (Radcliffe College), *Part-time Instructor in English*
- MADELYN G. GUTWIRTH, PH.D. (Bryn Mawr College), *Part-time Instructor in French*
- VIRGINIA G. LEBLANC, M.A. (Bryn Mawr College), *Part-time Instructor in French*
- RAMONA T. LIVINGSTON, A.B. (William Jewell College), *Instructor in English*
- MARY MAPLES, PH.D. (Bryn Mawr College), *Instructor in History on the Eloise Ruthven Tremain Memorial Fund*
- RUTH C. PEARCE, PH.D. (University of Pennsylvania), *Instructor in Russian*
- ROSAMOND KENT SPRAGUE, PH.D. (Bryn Mawr College), *Part-time Instructor in Greek*
- ROBERT A. WALLACE, A.B. (Harvard University), *Part-time Instructor in English*
- HARRY C. AVERY, M.A. (University of Illinois), *Instructor-elect in Greek*
- MIREILLE AZIBERT, *Licence-ès-lettres* (University of Paris), *Instructor-elect in French*
- ROBERT GORDON BEARD, PH.D. (Johns Hopkins University), *Instructor-elect in Biology*
- JANE SCHWARTZ BENJAMIN, PH.D. (Yale University), *Part-time Instructor-elect in History*
- SANDRA M. BERWIND, A.B. (Wheaton College), *Part-time Instructor-elect in English*
- MIGUEL GONZALEZ-GERTH, M.A. (University of Texas), *Instructor-elect in Spanish*
- JANE GOODALE, PH.D. (University of Pennsylvania), *Instructor-elect for Semester I in Anthropology*

GABRIELLE SCHOEPFLICH HOENIGSWALD, M.A. (Bryn Mawr College), *Part-time Instructor-elect in Latin*

JANE COLLIER KRONICK, M.S. (Yale University), *Instructor-elect in Social Work and Social Research*

FREDERIC G. LAYMAN, M.S. (Harvard University), *Instructor-elect in Geology*

LYDIA HALLE LENAGHAN, PH.D. (Bryn Mawr College), *Instructor-elect in Latin*

BRUNILDE S. RIDGWAY, PH.D. (Bryn Mawr College), *Part-time Instructor-elect in Classical Archaeology*

CATHERINE RODGERS, B.A. (Oxford University), *Instructor-elect in English*

ISABELLE K. SATTERTHWAITE, A.B. (Bryn Mawr College), *Part-time Instructor-elect in English*

KATRIN TAEGER, M.A. (Bryn Mawr College), *Part-time Instructor-elect in German*

BEATRICE YAMASAKI, M.A. (University of Hawaii), *Part-time Instructor-elect in Philosophy*

FRITZ JANSCHKA, *Akademischer Maler (Akademie der Bildenden Künste), Artist in Residence*

SANDRA GREEN LOVELL, A.B. (Bryn Mawr College), *Curator of Slides*

WILLIAM H. REESE, PH.D. (University of Berlin), *Director of Orchestra*

MILNOR ALEXANDER, M.A. (University of Pennsylvania), *Part-time Assistant in Political Science*

ELIZABETH W. BANCROFT, A.B. (Vassar College), *Part-time Reader in English*

ELIZABETH E. BOOTH, M.A. (Bryn Mawr College), *Part-time Assistant in Music*

SARA ANN CANER, M.A. (Bryn Mawr College), *Part-time Assistant in Philosophy*

PRISCILLA CARNEY, A.B. (Wheaton College), *Part-time Assistant in Chemistry*

EMERSON E. EBERT, M.S. (University of Vermont), *Part-time Assistant in Physics*

- JANICE T. GORDON, M.A. (Bryn Mawr College), *Part-time Assistant in Chemistry*
- ANNE E. HUDOCK, A.B. (Boston University), *Part-time Assistant in Biology*
- LEE C. HORNE, A.B. (Bryn Mawr College), *Part-time Curatorial Assistant in Art and Archaeology*
- LOUISE F. HUTCHINSON, M.A. (Bryn Mawr College), *Part-time Assistant in Mathematics*
- KENNETH L. LAWS, M.S. (University of Pennsylvania), *Part-time Assistant in Physics*
- NELLY J. K. LINCOLN, A.B. (Bryn Mawr College), *Part-time Assistant in Biology*
- ADELAIDE W. MAUCK, A.B. (Bryn Mawr College), *Part-time Assistant in Chemistry*
- JANE R. MCCONNELL, PH.D. (Bryn Mawr College), *Part-time Assistant in Biology*
- MARILYN S. MCHENRY, A.B. (Pomona College), *Part-time Assistant in Education*
- SHARON MESSENGER, A.B. (College of Idaho), *Part-time Assistant in Biology*
- MILLARD G. MIER, A.B. (Occidental College), *Part-time Assistant in Physics*
- SUE C. NUTTALL, M.A. (Bryn Mawr College), *Part-time Assistant in Anthropology*
- ELLEN SPECTOR PLATT, M.A. (Bryn Mawr College), *Part-time Assistant in Psychology*
- DOROTHEA J. RHEA, M.A. (Bryn Mawr College), *Part-time Assistant in Mathematics*
- HSIO-YEN SHIH, M.A. (University of Chicago), *Part-time Assistant in History of Art*
- RALPH TRENT SORENSON, A.B. (Wesleyan University), *Part-time Assistant in Psychology*
- LAWRENCE VERBIT, A.B. (College of William and Mary), *Part-time Assistant in Chemistry*
- KAREN E. WIER, B.S. (University of Washington), *Part-time Assistant in Geology*



## Officers of Administration

MARIAN CARTER ANDERSON, B.S. (Simmons College), *Recorder of the College*

CAROL BIBA, A.B. (University of Wisconsin), *Director of Public Information*

LOUISE HODGES CRENSHAW, A.B. (Bryn Mawr College), *Director of the Bureau of Recommendations*

KATHERINE A. GEFFCKEN, M.A. (Bryn Mawr College), *Assistant Dean of the College*

PAUL W. KLUG, C.P.A., B.S. (Temple University), *Comptroller*

CHARLOTTE BRANDON HOWE, M.A. (Radcliffe College), *Director of Halls and Head Warden*

KATHERINE Y. MASELLA, A.B. (Bryn Mawr College), *Assistant to the Acting Director of Admissions*

MARGARET McCABE, M.A. (Bryn Mawr College), *Acting Director of Admissions*

CLARISSA WARDWELL PELL, *Executive Director of the Resources Committee*

LAURA RICHARDSON SCOVILLE, A.B. (Bryn Mawr College), *Executive Secretary of the Seventy-Fifth Anniversary Committee*

HORACE T. SMEDLEY, *Superintendent of Buildings and Grounds*

## Library

JANET MARGARET AGNEW, M.A. (University of Manitoba), *Head Librarian*

PAMELA G. REILLY, M.S.L.S. (Drexel Institute), *Head of Circulation and Reference Department*

JANE WALKER, B.S. (Simmons College), *Head of Cataloguing Department*

ELIZABETH AMANN, M.L.S. (Rutgers University), *Assistant in Cataloguing Department*

SARAH C. BENHAM, M.S.L.S. (Western Reserve University), *Assistant in Cataloguing Department*

KANTA BHATIA, M.S. (Simmons College), *Assistant in Cataloguing Department*

DOROTHY V. MCGEORGE, B.S.L.S. (Drexel Institute), *Order Librarian*

YILDIZ VAN HULSTEYN, M.S.L.S. (Drexel Institute), *Librarian, West Wing*

LOIS E. WELLS, M.S.L.S. (Drexel Institute), *Assistant in Circulation Department*

## Foreign Students

MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*

## Halls of Residence

EMILY DUTROW, A.B. (Pennsylvania State University), *Warden-elect*

CHARLOTTE GIRARD, B.A. (University of British Columbia), *Warden-elect of Wyndham*

MARGARET HOOEY, B.A. (University of Toronto), *Warden of Pembroke West*

DAPHNE KNIGHTS, B.A. (Victoria University), *Warden of Radnor*

JOANN McDONALD, M.A. (Ohio State University), *Warden-elect*

PATRICIA ONDERDONK, A.B. (Bryn Mawr College), *Warden of Denbigh*

NANCY TATUM, M.A. (Bryn Mawr College), *Warden-elect*

GLORIA VON HEBEL, A.B. (Bryn Mawr College), *Warden-elect*

BERYL WILKINSON, M.A. (Bryn Mawr College), *Senior Resident of the Graduate Center*

## Health

ELIZABETH HUMESTON, M.D. (Cornell University), *College Physician*

FREDERIC C. SHARPLESS, M.D. (University of Pennsylvania School of Medicine), *General Consultant*

HOWARD B. SMITH, M.D. (Jefferson Medical College), *Consulting Psychiatrist*

RICHARD G. LONSDORF, M.D. (University of Pennsylvania School of Medicine), *Consulting Psychiatrist*

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

## Physical Education

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

ETHEL GRANT, *Instructor in Physical Education*

GLORIA SCHMIDT, M.A. (New York University), *Instructor in Physical Education*

JANET A. YEAGER, *Instructor in Physical Education*

## Phebe Anna Thorne School

SUSAN E. MAXFIELD, M.S. (Syracuse University), *Director*

EVE BRILL, B.S. (Teachers College, Columbia University), *Teacher*

GEORGIANNA ENGSTROM, A.B. (University of Minnesota), *Assistant Teacher*

EMILY W. DUTROW, A.B. (Pennsylvania State University), *Assistant Teacher*

## Child Study Institute

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania), *Director*

LOIS R. TABER, A.B. (Mt. Holyoke College), *Social Caseworker*

ELIZABETH WHEELER, M.S.S. (Bryn Mawr College), *Social Caseworker*

CORNELIA T. BIDDLE, A.B. (Bucknell University), *Part-time Social Caseworker*

ELSIE WAELDER, M.S.W. (Western Reserve University), *Part-time Social Caseworker*

LELIA BRODERSEN, M.A. (Temple University), *Psychologist*

ELEANOR BEATTY, M.A. (George Washington University), *Psychologist*

ANITA GRINNELL, M.S. (University of Pennsylvania), *Part-time Psychologist*

CONSTANCE GRANT, B.S. (University of Pennsylvania), *Remedial Reading Teacher*

CALVIN SETTLAGE, M.D. (University of Wisconsin Medical School), *Consulting Psychiatrist*

MARGARET DEALY, M.D. (Cornell University Medical College), *Consulting Psychiatrist*

HERMAN STAPLES, M.D. (Hahnemann Medical College), *Consulting Psychiatrist*

MARILYN S. MCHENRY, A.B. (Pomona College), *Assistant*

# Introduction

**B**RYN MAWR COLLEGE was founded by a group of men and women belonging to the Society of Friends who were convinced that intelligent women deserve an education as rigorous and stimulating as that offered to men.

This concern about opportunity for women to study at the university level was first felt by Dr. Joseph Taylor, a New Jersey physician, who decided to give his estate to provide the land, the first buildings and the endowment for the new college. With much care Dr. Taylor chose the site, thirty-nine acres of land on a hill in Bryn Mawr, eleven miles west of Philadelphia. He supervised the erection of the first building and took part in formulating the plans that led to a new educational venture. This was the opening in 1885 of the first college for women with undergraduate instruction for the A.B. and graduate instruction for the M.A. and Ph.D. degrees in all departments.

The first president of Bryn Mawr College was James E. Rhoads, a retired physician and one of the Trustees responsible for the initial plans. The first dean was M. Carey Thomas, who devoted her life to securing for women the opportunity for higher education and the right to share in all the privileges and responsibilities of American citizenship. Miss Thomas succeeded to the presidency in 1893, after the resignation of Dr. Rhoads. In 1922, she was followed by Marion Edwards Park, already distinguished in the academic world for her scholarship in the classics and her ability as a teacher and administrator. The fourth president is Katharine Elizabeth McBride, who was elected to the presidency in 1942.

Since the early years of Bryn Mawr, the campus has grown from 39 to about 75 acres, new buildings have been added as required by additional students and by more complex undertakings in teaching and research, yet the College remains a compact unit for living and working.

Bryn Mawr has preserved the purpose and much of the tradition of its founders. It believes that intellectual enrichment and discipline provide a sound foundation for living. It believes in

the rights of the individual and in freedom to think and act as intelligent and responsible members of a democratic society.

By the terms of its charter Bryn Mawr College provides instruction in the liberal arts and sciences on both the undergraduate and graduate level. Members of the faculty usually combine graduate and undergraduate teaching. Teaching and research are found to complement each other, and the stimulation of investigation in the various fields of graduate study is reflected in all departments of undergraduate work. The undergraduate program emphasizes both depth and breadth of knowledge and understanding. No field is so broad that it cannot take advantage of the specialist's deep understanding; no specialty is so obscure that it may not profit from a breadth of perception.

Believing that a small college provides the most favorable opportunity for the students to participate actively in their own education, Bryn Mawr College limits the number of undergraduates to approximately six hundred students. And since diversity in background and training serves not only to stimulate discussion but also to develop an intelligent understanding of such diversity, the undergraduate enrolment includes students from various types of schools, private and public, foreign as well as American. The whole group, both graduate and undergraduate, is composed of students from all parts of the United States as well as students from many foreign countries.

The resources of Bryn Mawr as a small residential college are augmented by its participation with Haverford College and Swarthmore College in a plan which coordinates the facilities of the three institutions while preserving the individual qualities and autonomy of each.

Bryn Mawr College sponsors a broad cultural program which supplements the curriculum and enriches its community life. Various lectureships bring scholars and other leaders in world affairs to the campus for series of public lectures and for classes and conferences with the students. Such opportunities are provided by the six-week residence of the Mary Flexner Lecturer in the Humanities and of the Anna Howard Shaw Lecturer in the Social Sciences, and by various individual lecturers in many of the departments of the College. Each year a series of lectures on current national and international problems is arranged by the Undergraduate Alliance for Political Affairs. The musical, dra-

matic and dance productions of the College are directed and arranged by the appropriate student organizations, often in co-operation with their counterparts in Haverford College, and with professional assistance from members of the faculty and staff. The Mrs. Otis Skinner Theater Workshop provides facilities for experimental theater work and a studio for painting and sculpture, where guidance and criticism are provided by the artist-in-residence.

Student organizations have complete responsibility for the many aspects of student activity. The large associations, to which every student belongs, provide a framework in which individuals and smaller groups function. The Self-Government Association legislates in matters of social and personal conduct, and its elected Executive Board has full responsibility for the executive and judicial functions of the organization. Through their Self-Government Association, the students share with the faculty the responsibility for the administration of the Academic Honor System. The Undergraduate Association coordinates the activities of the many specialized clubs and societies which are open to all and which provide opportunities for critical and creative efforts. The Interfaith Association with the guidance of the Committee on Religious Life of the Board of Directors and members of the Faculty plans the Chapel Services and takes the responsibility for giving students an opportunity to pursue and extend their religious interests. The Bryn Mawr League concerns itself with problems of social welfare and various branches of social service to the community at large, and the Athletic Association plans the extra-curricular athletic program.

Opportunity for the cultivation of clear thinking and informed reasoning, for exercise in the privileges and responsibilities of community life, and for practice in the critical and creative arts should thus be part of the experience of the undergraduate student at Bryn Mawr. As she continues through the four undergraduate years, she should begin to know too the personal satisfactions and rewards that are the common heritage of scholars.

# Admission

**B**RYN MAWR COLLEGE is interested in candidates of character and ability, who wish a liberal college education and are prepared for college work by a sound education in school. The College has found highly successful candidates among students of varied interests and talents from a wide range of schools and regions in the United States and abroad.

In its consideration of candidates the College looks for evidence of ability in the student's high school record, her rank in class and her College Board tests, and asks her high school principal for an estimate of her character, maturity and readiness for college.

The Director of Admissions welcomes correspondence and interviews with candidates, their parents and school advisers. College and Alumnae Association representatives in various sections of the country are glad to see candidates. Names and addresses are listed on pages 129-139.

## PROGRAM OF SECONDARY SCHOOL STUDIES

Candidates are expected to complete a four-year secondary school course. The program of studies providing the best background for college work includes English, languages and mathematics carried through most of the school years and, in addition, history and a laboratory science. A school program giving excellent preparation for study at Bryn Mawr would be, for example, as follows: English grammar, composition and literature throughout four years; Mathematics, emphasizing basic algebraic, geometric and trigonometric concepts and deductive reasoning; a good foundation in one modern language and in Latin or Greek; some work in History and at least one course in science, preferably Biology, Chemistry or Physics. Elective subjects might be offered in, for example, History of Art, History of Music or Biblical studies to make up the total of 16 credits generally recommended for admission to the College.

Since school curricula vary widely, the College is fully aware that many applicants for admission will offer programs that differ from the one described above. The College is glad to consider applications from students whose schedule of courses



has been different, provided that continuity in the study of basic subjects has been maintained.

### APPLICATION FOR ADMISSION

Students are advised to apply for admission to Bryn Mawr before the end of the junior year in high school. Early registration allows time for consultation about school programs and assures the student of receiving up-to-date information about the College. Admitted candidates are assigned rooms in order of date of registration.

*Only in exceptional circumstances will applications to the freshman class be accepted after January 31 of the student's senior year.*

Application forms may be obtained from the Director of Admissions, Bryn Mawr College, Bryn Mawr, Pennsylvania. A fee of \$15 must accompany each application and is not refundable. Application does not insure admission.

### ENTRANCE TESTS

The Scholastic Aptitude Test and three Achievement Tests of the College Entrance Examination Board are required of all candidates with the exception of students who have been admitted to the universities of other countries. The Aptitude Test should be taken in January of the senior year in secondary school, and the Achievement Tests in March of that year. Bryn Mawr prefers that candidates offer Achievement Tests in English, in a foreign language, and in one of the following: Social Studies, one of the sciences, or in Intermediate or Advanced Mathematics. No special preparation, other than work well done in a good school, is required for successful performance on these tests. A trial run of the Scholastic Aptitude Test in March or May of a student's junior year is advised. Candidates will be notified in mid-May of the senior year as to whether or not they will be admitted to the College.

*Candidates are responsible for registering with the College Entrance Examination Board for the tests. Information about the tests, test centers, fees and dates may be obtained by writing to College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey, or P.O. Box 27896, Los Angeles 27, California.*

## EARLY DECISION PLAN

A student who is applying for admission to Bryn Mawr College only, and to no other college, will be sent an earlier notice (about December 1) as to the action taken on her application, provided she follows the plan outlined below:

1. She must be recommended by her school as a strong candidate and must take her *final* Scholastic Aptitude and three Achievement Tests (English and any two others) in March or May of the junior year.
2. After her school has reviewed the results of these tests together with her three-year high school record, she must file before October 1, in addition to a regular registration, a statement obtained from the College that she is a candidate under the Early Decision Plan.
3. She will be notified by the College in early December either (1) that she will be admitted to Bryn Mawr the following autumn, provided her record continues to be good, or (2) that she is advised to transfer to the regular plan for admission, repeating the Scholastic Aptitude Test and three Achievement Tests in the spring of her senior year, and filing an application with at least one other college, or (3) that she should withdraw her application to Bryn Mawr.
4. A student who has been assured of admission by December 1 will be asked to make a deposit of \$200 by February 1 if she wishes to reserve a place in residence at Bryn Mawr College. This deposit will be deducted from her first semester bill.

## ADVANCED PLACEMENT

Students who have carried advanced work in school may, after consultation with the Dean and the departments concerned, be admitted to one or more advanced courses in the freshman year if they have made honor grades on the Advanced Placement Tests of the College Entrance Examination Board. These tests are given at Board centers in May. Students should also see the Dean of Freshmen about the advisability of taking placement tests given by the College during Freshman Week.

## TRANSFER AND FOREIGN STUDENTS

Students are admitted on transfer from American and foreign colleges and universities approved by the College. To be ad-

mitted on transfer, a student must have an excellent school record and, in college work, a high "B" average. A transfer applicant should submit to the College:

1. A letter explaining why she wishes to transfer and her plans for the major subject.
2. A current catalogue of her own college, in which she has marked the courses taken.
3. Transcripts of her high school and college courses.
4. Official test reports from the College Entrance Examination Board on the Scholastic Aptitude Test and three Achievement Tests if the candidate has taken them previously.

Transfer candidates who have not taken these tests will be required to take only the Scholastic Aptitude Test in the March or May series. Information concerning this test and applications to take it may be obtained from the College Entrance Examination Board. (For address see page 27.)

Foreign students may substitute for the College Board tests evidence that they have been admitted to universities in their own countries. Those whose native language is not English must also present credentials attesting proficiency in English.

No credit will be given for work done elsewhere until the student has successfully completed a year's work at Bryn Mawr. To qualify for the A.B. degree, transfer students must complete two years of study here. Students of other colleges or universities who have failed to meet the prescribed standards of academic work, or who have been put on probation or suspended or excluded, will under no circumstances be admitted.

#### NON-MATRICULATED STUDENTS

Women over twenty-five years of age may be admitted as non-matriculated students. They are called "Hearers" and may take undergraduate courses without a matriculation examination after furnishing proof that they have at some time pursued the studies required for matriculation. Hearers are clearly differentiated from regularly matriculated students and must obtain permission from each instructor to attend classes, laboratories and examinations. They are not eligible for degrees and may receive only such certificates of collegiate study as their instructors see fit to give. They are charged the full tuition fee. No other special students are admitted to undergraduate courses.

# Academic Facilities and Residence

## THE LIBRARY

THE M. CAREY THOMAS LIBRARY, containing over a quarter of a million volumes, is equipped to serve advanced graduate students and faculty as well as undergraduates. It is both a research and a study library. Periodicals in all subjects, of which about one thousand are currently received, contribute materially to the value of the collection.

The open-shelf system provides free access to the stacks. The Reference Room and Periodical Room make readily available standard works of reference and current periodicals.

The Quita Woodward Memorial Room has been planned for recreational reading. The collection provided for this purpose, now numbering about two thousand volumes, includes recent books in literature, art, religion and current affairs as well as many classics.

In the Rare Book Rooms, there are early printed books, manuscripts, first editions, fine press books, fine illustrated editions and association copies. Exhibitions of items selected from the library's own resources and of material lent by friends of the Library are held at intervals during the academic year. Here also is the Marjorie Walter Goodhart Mediaeval Library, a collection of incunabula given by Howard L. Goodhart, that numbers over nine hundred volumes. Consisting mainly of philosophical and theological works of the fifteenth century, it occupies a significant place among college library collections.

A large Reading Room modeled after the Great Hall in Wadham College, Oxford University, has individual desks for undergraduate students. Additional work space is available in the Reserve Book Room, the Reference Room, the Art Study and the carrels in the West Wing. Twelve seminar rooms are reserved for graduate students.

Haverford and Swarthmore Colleges and the libraries in Philadelphia are generous in making their resources available to

students. The Philadelphia Bibliographical Centre and Union Library Catalogue situated at the University of Pennsylvania enable the student to locate easily the material in approximately one hundred and sixty libraries in the Philadelphia metropolitan area.

Each of the science departments at Bryn Mawr has its own library, with adequate reading space providing ready accessibility to bound and current numbers of scientific journals, standard reference books and modern texts.

### ART MUSEUM AND SLIDE COLLECTION

The collection of slides used in the Departments of Classical and Near Eastern Archaeology and History of Art comprises some 40,000 items, representing all fields of Western and Oriental art from prehistoric times to the present. It is supplemented by a collection of 35,000 photographs and color reproductions.

A small but valuable group of original works of art, available for study, includes Greek and Roman vases, ancient coins, sculpture, Oriental pottery and scrolls, prints, and modern American and European paintings. The Ella Riegel Museum of Classical Archaeology houses the Densmore Curtis Collection presented by Clarissa Dryden, part of the Hoppin Collection, the Elizabeth Washburn King Collection of Classical Greek coins, and the Aline Abaecherli Boyce Collection of Roman Republican silver coins, as well as various gifts from friends of the College. For Far Eastern study the Chapin Collection of books, paintings, calligraphy, textiles and ceramics contains material from Korea as well as from China and Japan. Western art is variously represented by several small collections, including the Howard L. Gray Collection of Modern Prints and the Neuberger Collection of Contemporary American Paintings.

### LABORATORIES

The Departments of Chemistry and Geology have their laboratories, libraries and classrooms in the Marion Edwards Park Hall. The Department of Biology is located in a new building adjoining Park Hall. This is the second of three buildings planned to provide in one unified group ample space and modern facilities for the natural sciences and mathematics. Funds

are being raised so that it will be possible to construct the building for Physics and Mathematics in the near future.

Physics, Mathematics and Psychology now occupy Dalton Hall, which will be released to provide for other departments when the Science Center is completed.

Both Dalton and the Science Center have facilities for graduate as well as undergraduate students. In addition to the usual equipment, the science departments have special apparatus and instruments needed by faculty and graduate students in particular research projects. On occasion this equipment is made available to advanced undergraduates working on honors problems.

In the present Science Center there are new laboratories for the use of radioactive materials, a glass-blowing shop, and a laboratory for microphotography. In Dalton Hall there is a machine shop with an expert machinist in charge. There is also a student shop at the disposal of graduate students in Physics and seniors working on honors problems. In addition, there is a modest hot laboratory in which radioactive samples may be processed in connection with the programs of the various departments.

Each of the science departments has its own library including the appropriate scientific journals. The Geology Department also has over 25,000 maps on deposit from the United States Army Map Service. The Department's large collection of minerals has been greatly increased recently by the gift from George and Henry Vaux of the famous Vaux collection.

## Residence

### HALLS OF RESIDENCE

There are on the campus nine halls of residence, which provide full living accommodations for fifty to eight-five students each, and one smaller hall, used as a language house for upper-classmen, housing seventeen students. Denbigh Hall, Merion Hall, Pembroke East, Pembroke West and Radnor Hall are named for counties in Wales, recalling the tradition of the early Welsh settlers of the area in which Bryn Mawr is situated. Rockefeller Hall is named for its donor, John D. Rockefeller, and Rhoads North and South for the first president of the Col-

lege, James E. Rhoads. Each hall is in the charge of a resident warden, an instructor or graduate student, who is also a member of the Dean's staff and, like the Dean, is interested in all aspects of the student's welfare and her progress in college.

Although the College offers a variety of living accommodations, most students have single rooms. Some suites and double rooms are available. For all the rooms the College provides the necessary furniture, but students are expected to supply their own rugs and curtains and any other accessories they may desire.

Each of the halls is a complete residence unit, with its own kitchen and dining room, except Pembroke East and West and Rhoads North and South, which have common kitchens and dining rooms for the two wings. There are both large and small public rooms in every hall, where students may entertain their guests and gather together for study or recreation. The maintenance of the hall is under the direction of a Hall Manager who, under the supervision of the College Dietitian, is also responsible for the preparation and serving of the meals. It is not possible to arrange for the cooking or serving of special foods or diets in the halls of residence.

### RULES FOR RESIDENCE

Residence in the college buildings is required of all undergraduates except those living with their families in Philadelphia or the vicinity. The privilege of residence is extended to married students whose husbands are not living in the immediate vicinity of the College.

A student enrolled in the College who plans to be married must inform the Dean of her intentions and must make arrangements for living that meet with the Dean's approval. *Any student who marries during her college career without previously informing the Dean of her plan will not be permitted to remain in the College.*

The College maintains its halls of residence in order to provide simple, comfortable living for its students. It expects students to respect its property and the standards on which the halls are run. A printed statement of residence regulations is given each student for her guidance during the academic year. The College makes every effort to keep the residence charge low;

the present rates are possible only because the students have agreed to assume the major responsibility for keeping their rooms clean and in order, thus permitting a reduction in service. Failure on the part of a student to meet the requisite standard in the care of her room may cause the College to refuse her residence the following year.

All the halls are closed during the Christmas vacation; one hall is kept open during the spring vacation and here undergraduates may occupy rooms at a fixed rate per day. A student not going to her home for either vacation, and not staying in the hall kept open during spring vacation, must submit her plans for the holiday to the Dean for approval and must register her address with the warden of her hall.

### NON-RESIDENT STUDENTS

Students who live with their families in Philadelphia and the vicinity have at their disposal a room in the Library where lockers are provided. Their college mail and notices about campus activities are sent there. Rooms in Goodhart Hall for teas and special occasions are also available on request. The warden of one of the halls of residence serves as warden to the non-residents.

When space permits, non-resident students may make arrangements with the Director of Residence to have meals in the residence halls. Meals are also served on campus at the College Inn.

Non-resident students are liable for all undergraduate fees except those for residence in the hall. The non-resident Infirmary fee of \$15 entitles them to medical examination and consultation with the College Physician. For health fees, see page 40.

*Non-Resident Enrolment Fee.* A non-resident student who wishes to enroll for the following year must make a deposit of \$25 not later than June 1. This deposit will be credited against the tuition charge.



# Fees

## TUITION

THE tuition fee for all undergraduate students, resident and non-resident, and for hearers is \$1100 a year. The fee is payable on receipt of the bill sent in October. No reduction or refund of the tuition fee will be made on account of absence, illness, dismissal, or for any other reason.

The average cost of teaching each undergraduate student is over \$1700 a year. The difference must be met from income on endowment and from private gifts. Contributions from parents able and willing to pay the additional sum or part of it are most welcome and help to meet expenses of instruction.

## RESIDENCE

The charge for residence is \$1050, \$1150 or \$1250, according to the size and location of the student's room or rooms. There is an additional fee of \$50 for residence in a language house. The residence fees are payable as follows:

\$1050—payable \$525 in October, \$525 in February

\$1150—payable \$575 in October, \$575 in February

\$1250—payable \$625 in October, \$625 in February

*Application for Residence.* A student in residence, who wishes to apply for a room for the following year, must make an application for a room and accompany it with an application fee of \$10. This fee will be credited against the residence charge if the room assigned is occupied by the applicant; it will not be refunded in any circumstance. Each student enrolled for the following year must make an additional deposit of \$40 not later than June 1. This deposit will also be credited against the residence charge. It will be returned if the student withdraws from College before June 15; it will not be returned if she withdraws later than June 15.

New students applying for residence will be billed \$50 in the spring. This \$50 will be credited against the residence charge, but it will not be returned in case of withdrawal after June 15.

New students assured admission under the Early Decision Plan will be asked to make a room deposit of \$200 by February 1.

An applicant who, after having reserved a room, fails to cancel her reservation by August 1 (even though she does not occupy the room at all or vacates it during the college year) prevents some other student from obtaining accommodation and consequently admission to the College. Therefore, unless formal notice of withdrawal of application for the ensuing academic year is received by the Dean of the College by August 1, the applicant is responsible for the residence charge (based upon the room assigned to her) for the whole year, or if a definite room assignment has not been made, the applicant is responsible for the minimum residence charge of \$1050, subject to an allowance for the cost of food and a further allowance if the College re-rents the room to a student not previously resident. The applicant is not entitled to dispose of the room.

*Reduction of Charges for Absence from College.* In case of illness or withdrawal from the College for a period of six consecutive weeks or longer there will be a reduction in the charge for residence (representing the reduced expense to the College for food), provided written notice is given to the Dean of the College at the time of withdrawal, or, in the case of illness at home, as soon as possible. Verbal notice to wardens or instructors is not sufficient to secure this reduction.

### SUMMARY OF MAJOR EXPENSES FOR 1959-60

For resident students, tuition and residence: \$2150, \$2250, or \$2350 according to the type of accommodation.

For non-resident students, tuition: \$1100.

#### *Minor Fees and Charges*

Laboratory courses (or, in Geology, field work) for materials and apparatus:

One course of 2 hours or less a week .....	\$ 7.50	} a semester
One course of more than 2 hours a week .....	15.00	
Two courses of more than 2 hours a week .....	25.00	
Three courses of more than 2 hours a week .....	30.00	
Residence in a language house .....	50.00	a year
Graduation fee (payable in the senior year) .....	20.00	
Health Insurance (Students' Reimbursement Plan) .....	15.00	a year
Infirmary fee for non-resident students .....	15.00	

Bills will be rendered by the Comptroller at the beginning of each semester. Students whose fees and charges are not paid before November 1 in the first semester and before March 1 in the second are not permitted to continue in residence or to attend their classes. The Tuition Plan is available for parents who prefer to pay fees in monthly instalments.

# General Information

## STUDENT ADVISING

THE Deans are responsible for the general welfare of undergraduates, and students are free to call upon them for help and advice on academic or more general problems. The Dean of Freshmen is the adviser to the freshman class and the Dean of the College and the Assistant Dean are advisers to upperclassmen. The warden, the college officer in charge of each residence hall, is a member of the Dean's staff and stands ready to assist students. The College Physician, the consulting psychiatrists and vocational advisers are also available to all students. The Deans and the wardens will always give students information about appointments with these specialists.

For freshmen, the College provides a special period of orientation. Freshmen are asked to come into residence three days before the College is opened to upperclassmen. The wardens of the various halls and a committee of upperclassmen welcome them and are available to answer questions and give advice. The freshmen have interviews with the President or the Dean of the College and consult with the Deans on registration of courses. New students also take placement tests and a physical examination. To acquaint them with the many other aspects of college life, activities are sponsored by the undergraduate organizations.

## ACADEMIC STANDARDS AND REGULATIONS

Faculty rules governing academic work and the conduct of courses are stated in the "Academic Rules for Undergraduate Work." Rules concerning the Academic Honor System and student conduct are stated in the Self-Government Handbook.

Each student's academic work must be of sufficiently high quality to meet the academic standards set by the College. The Senate of the College, composed of one faculty member from each department, reviews the records of those students whose work has fallen below the required standard. In such cases the Senate may set specific requirements to be met by the student concerned and may also curtail privileges. In extreme cases the Senate may recommend exclusion from college.

Integrity of all work is demanded of every student. Information about the Academic Honor System dealing with the conduct of examinations, written quizzes, and other written work

is given to all entering students, who must sign a statement that they have read, understood and accepted the rules. Any infraction of these regulations or any action contrary to their spirit constitutes an offense. Infractions are dealt with by an Administrative Board under the chairmanship of the President of the College. The members of the board are the four college-elected members of the Executive Board of the Bryn Mawr Students' Association for Self-Government, three members of the faculty and the Dean of the College or representative of the administration.

### ATTENDANCE AT CLASSES

Regular attendance at classes is expected. Responsibility for attendance rests solely with each student. When the quality of a student's work is affected in any way by absence from class, she will be warned in writing by the Dean. If she continues to cut after the warning, she will be dropped from the course and reported to the Senate. A student who is dropped from two courses will be suspended from the College, by rules of the Senate, for the remainder of the semester.

Absences for health or other urgent reasons are excused by the Dean, but any work missed must be made up. After a brief absence the student should consult her instructor about making up the work. In the case of a prolonged absence the Dean must be consulted as well as the instructor. If it seems probable to the Dean that a student's work may be seriously handicapped by the length of her absence, she may be required to drop one or more courses. Any student absent for more than twenty-five consecutive class days will generally be required to drop a course.

### EXCLUSION

The College reserves the right to exclude at any time a student whose conduct or academic work is unsatisfactory. In such cases the fees due or already paid to the College will be neither refunded nor remitted in whole or in part.

### HEALTH

An extensive program, including periodic physical examinations and regular work during the first two years in the Department of Physical Education, has been established to help students develop and maintain optimum conditions of health. Students receive clinic and hospital care in the College Dispensary and Infirmary, where the College Physician is in daily attendance.

The College maintains a modern twenty-two bed infirmary staffed by five registered nurses and a secretary-technician. The Bryn Mawr Hospital and other excellent hospitals in nearby Philadelphia offer additional medical and surgical facilities.

The College physicians and psychiatrists may be consulted by the students without charge. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College; the student must meet the expense if consultation is required. No student while in residence should consult an outside physician without previously informing the College Physician. Any student who leaves the campus for reasons of health must notify the Dean, the College Physician or Head Nurse before she leaves.

Certain health regulations must be met by all entering students. A medical examination blank provided by the College must be filed before July first. As part of this health report, certification of immunization against tetanus and diphtheria, vaccination against smallpox, a Mantoux test and ophthalmologist's certificate are required. If the Mantoux test is reported positive a flat chest X-ray is necessary. (Students who have failed to hand in these reports will have the necessary examinations and immunizations on arrival and will be charged accordingly.)

The ophthalmologist's examination must be repeated before the beginning of the junior year. Failure to meet this requirement entails a fine and an examination by one of the College consultants, for which the student will be charged as a private patient by the ophthalmologist who makes the examination.

Any student who has a positive Mantoux test is required to have a yearly flat chest plate at Bryn Mawr Hospital beginning the year after admission to the College. The student is charged at the prevailing rates of the hospital.

Every undergraduate is examined in her freshman and senior years by the College Physician and in her freshman year by the Director of Physical Education as to physical development and general health. Students who have special health problems are examined more frequently. A student who at the time of an examination or at any other time during the year is not in good health is required to follow the special regime prescribed, and her extracurricular activities may be limited.

The residence fee paid by resident students entitles them to treatment in the College Dispensary and to care in the College Infirmary for seven days (not necessarily consecutive) during the

year, to attendance by the College physicians during this time and to general nursing. In cases requiring a special nurse, the expense incurred must be paid by the student. This is mandatory in cases of serious illness and strict isolation. The fee for each day in the Infirmary after the seven-day period is nine dollars. The Infirmary is open when college is in session and during spring vacation. It is closed during Christmas vacation.

Non-resident students must pay a fee of \$15, which entitles them to unlimited dispensary and laboratory service and free consultation with the College physicians and psychiatrists. Married non-resident students who maintain their own homes need not pay the fee unless they desire dispensary privileges. In this case, a dispensary card will be issued by the Comptroller.

All communications from parents and guardians, outside physicians and others, concerning the health of the students, should be addressed to the Dean of the College or the College Physician. Any student who becomes ill when absent from College must notify the Dean of the College immediately and present a signed statement to the Infirmary from her physician when she returns.

The College reserves the right, if the parents or guardians cannot be reached, to make decisions concerning operations or other matters of health.

The College has arranged for health insurance, known as the Students' Reimbursement Plan. Individual policies providing reimbursement for medical, surgical and hospitalization expenses within specified limits are available to resident students. The cost is \$15 a year and includes protection during all vacations. Application forms may be obtained from the Comptroller.

#### THE TUITION PLAN

Since some parents prefer to pay tuition and other college fees in equal monthly instalments during the college year, the College offers this convenience under The Tuition Plan, Inc., of New York City. The cost for a one-year contract is four per cent greater than when payment is made in cash. The interest rate is slightly higher for two-, three- or four-year contracts, which include the benefit of Parent Life Insurance.

#### INSURANCE

The College is not responsible for loss due to fire, theft or any other cause. Students who wish to insure against these risks should do so individually.

# Curriculum

THE undergraduate curriculum is designed to achieve two main purposes: to give a broad and sound education in the liberal arts and sciences, and to provide adequate preparation for advanced study for those students who wish to enter graduate and professional schools.

In order to assure breadth in the curriculum the College has established the following requirements which must be met by all candidates for the A.B. degree regardless of their choice of major subject: (1) Freshman English composition, (2) History of Philosophic Thought, (3) one course in the natural sciences, (4) one course in literature and (5) one course in the social sciences or history. Each student must also demonstrate a knowledge of two foreign languages. This may be done by (1) attaining a score of 590 on a College Board achievement test, (2) passing examinations offered by the College every spring and fall, or (3) passing with a grade of at least 70 a college course above the elementary level.

The major subject, chosen at the end of the sophomore year, is combined with work in allied subjects. The purpose of the major subject is to give each student the kind of training that continuity in the study of one field of knowledge provides. As she progresses toward more complex advanced work she acquires a deeper insight into the fundamental principles and general concepts of her subject. At Bryn Mawr the departments offering major courses of study are: Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, English, French, Geology, German, Greek, History, History of Art, Italian, Latin, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Russian, Sociology and Anthropology, Spanish. There are also departments of Education and History of Religion, in which elective work may be taken although no major is offered.

Each major department offers Honors work to a number of its senior students who have demonstrated unusual ability. Honors work is of a more advanced character than that done in the regular courses and requires more initiative and power of

organization than is usually expected of undergraduate students. Such work may be carried on in connection with an advanced course or may be planned especially for individual students. It usually includes independent work of a critical and analytical nature with source material, periodic reports and the preparation of an Honors paper. To be eligible a student must have completed two years of study in the major subject, and her candidacy must be approved by the Dean and the Curriculum Committee. The Honors work must be undertaken in addition to at least one full unit of advanced course work.

The plan for the curriculum determines the framework within which each student constructs her own program of courses.

The minimum of  $15\frac{1}{2}$  units of work for the A.B. degree is distributed as follows:  $4-5\frac{1}{2}$  units meet general college requirements, approximately 7 units constitute work in the major subject including allied work and the preparation for the Final Examination in the major subject, required of all students. The remaining units ( $3-4\frac{1}{2}$ ) are for courses to be elected freely by the student. Each full year course is the equivalent of one unit of work and each course constitutes one quarter of a student's working time for one year. For the benefit of transfer students, one course is the equivalent of 8 semester hours. In most cases, Freshmen, Sophomores and Juniors take 4 units of work and Seniors  $3\frac{1}{2}$  including the unit of preparation for the Final Examination in the major field. This preparation usually consists of independent reading and conferences with members of the major department designed to review and correlate the material covered in the major.

A student may be exempt from one or more of the required courses on the basis of advanced, college-level courses taken in secondary school and approved and tested by the particular departments concerned. One or more of the requirements may be met by summer school courses which are approved by the departments concerned and by the Dean.

The plan for the curriculum may be outlined as follows:

I. A total of at least  $15\frac{1}{2}$  units of work must be presented by all candidates for the A.B. degree. The total is made up of  $14\frac{1}{2}$  units of course work and one unit of preparation for the Final Examination in the major subject.



II. The 14½ units of course work must include the following:

1. The course for Freshmen in English Composition. This course is supplemented by work in English Speech, consisting of individual conferences, which must be completed before the end of the Sophomore year.

2. A course in literature to be chosen from courses in English and Biblical Literature, Greek or Latin.

3. A course in one of the following sciences: Biology, Chemistry, Geology or Physics.

4. The course in History of Philosophic Thought.

5. A course in social science to be chosen from offerings in Economics, History, Political Science, Psychology or Sociology and Anthropology.

6. Although no specific course or courses are required, each student must demonstrate in one of the ways listed on page 41 a knowledge of two foreign languages.

Language examinations may be taken in any autumn or spring after entrance, up to the beginning of the senior year. A Senior who fails either examination or is conditioned in both in the autumn will not receive her degree the following June. If having passed one examination she is conditioned in the other, she may take a second examination in January.

III. The total number of at least 15½ units of work must include a major subject chosen at the end of the sophomore year. The major subject must consist of:

1. Six units of work to be distributed as follows:

- a. At least three and usually four courses of work in the major field. Of these one or two must be second-year courses, and one must be advanced.

- b. The remaining number of courses to make up the required total of six to be chosen among the courses listed by the major departments as acceptable for allied work.

2. One unit of preparation for the Final Examination in the major subject. All students who receive the degree must have passed this examination.

IV. Elective work. The remaining units of work making up the required total of  $15\frac{1}{2}$  are devoted to elective courses. Students may choose freely any courses that do not have prerequisites or any courses whose prerequisites they can meet.

V. Grades. Numerical grades on the scale of 100 are given in all courses counting for the degree. Each student must attain a grade of 70 or above in at least half of these courses and a grade of at least 60 in the remainder. In all courses in her major subject, she must attain grades of 70 or above. Should she receive a grade below 70 in a second-year or advanced course in her major subject, she may be required to change her major.

VI. The degree of Bachelor of Arts is conferred upon students who have completed the course of study described above. The degree is awarded *cum laude*, *magna cum laude*, and *summa cum laude* to students whose numerical average grades in all their courses is 80-84, 85-89, 90 or above respectively. To students who have completed Honors work in their major subject the degree is awarded with honors in that subject.

VII. Credit for work taken elsewhere:

1. Transfer credit (see page 29)
2. Cooperation with Neighboring Institutions

Under the Three-College Plan for Cooperation, full-time students at Bryn Mawr may register for courses at Haverford College and Swarthmore College without payment of additional fees. Such registrations must be approved by the Dean and the departments concerned. Credit toward the Bryn Mawr degree will be granted for such courses.

3. Summer School Work

Students desirous of supplementing their work at Bryn Mawr by taking courses in summer school are encouraged to do so. Students who wish to present summer school work for credit should first obtain approval of their plan from the Dean and from the department concerned. No credit will ever be given for work in which a student has received a grade below C. Credit given will be calculated on an hour-for-hour basis.

## VIII. Supplementary requirements for the Degree:

1. In addition to completing the course of study outlined above, all candidates for the A.B. degree must take the following work:

a. All students must fulfill the requirement in English Speech. This consists of an interview-test during the freshman year, to be followed by remedial work (in conference, without credit), ordinarily throughout the first semester, for those needing it.

b. Hygiene

All students must meet the requirements in Hygiene by passing an examination based on reading assigned by the College Physician and the Consulting Psychiatrists and given annually. The examination must be taken no later than the spring of the junior year.

c. Physical Education

All students must meet the requirement in Physical Education, consisting of work taken throughout the freshman and sophomore years (see page 108).

2. Residence—Every candidate for the degree of Bachelor of Arts unless she is a transfer student or is permitted to accelerate her program must attend Bryn Mawr College for a period of four years. Students admitted on transfer from other colleges must study at Bryn Mawr for at least two years.

## PREMEDICAL PREPARATION

Bryn Mawr, through the curriculum in liberal arts and sciences, provides the opportunity of meeting requirements for admission to the leading medical schools of the country, and each year a number of its graduates enter these schools. The minimal requirements for most medical schools are met by the following courses: Biology 101, Chemistry 101, Chemistry 202, Mathematics 101, Physics 101. Some medical schools also stipulate Chemistry 201a, and reading facility in French and German.

The requirements are fulfilled by a major in Biology, with

the election of Mathematics 101 and Physics 101, or by a major in Chemistry, with the election of Biology 101. They can be met by a major in other subjects, such as literature or history, with careful planning of the student's courses during her four years at Bryn Mawr and some work in the summer at an institution giving summer courses acceptable either to Bryn Mawr in substitution for its regular course work, or to the medical school of the student's choice as preparation for its courses of study.

The College is able to award a number of scholarships for medical study from funds given for that purpose by friends interested in the advancement of women in medicine. These may be applied for on admission to medical school and are awarded at the end of the senior year, for use during the first year of medical study with the prospect of renewal for later years if the student's need and her record in medical school warrant it.

### COORDINATION IN THE SCIENCES

In 1935, a grant from the Carnegie Corporation of New York enabled the College to put into operation a plan for coordination in the sciences. Under the plan, the science departments offer an unusual kind of science training, providing instruction in overlapping fields of natural science and related subjects, such as biophysics, geochemistry, or psychophysics. The program necessarily demands a thorough grasp of the fundamentals of at least two sciences, and usually also of mathematics. This training may be obtained in the first three years of undergraduate study and the interrelated work begun in the senior year and continued in the Graduate School.

Through the grant, the College is also able to offer both undergraduate and graduate scholarships to students who wish to prepare themselves for future work in these relatively new and extremely fruitful areas of scientific investigation. The chairmen of the departments included in this plan (Biology, Chemistry, Geology, Mathematics, Physics, Psychology) will be glad to see students interested in it and to advise them about their courses of study. Such students should consult with the chairmen of the departments in which their special interests lie as early in their course as it is possible to do so.

## INTERDEPARTMENTAL COURSES

Each year, certain courses are offered which cut across well-defined areas of knowledge and emphasize relationships among them. Such courses are taught by two or more members of the faculty working in close cooperation. Since the material considered requires some background in at least two disciplines, the interdepartmental courses are usually offered at the advanced level. For students who have progressed to the more complex aspects of their major subjects, the interdepartmental courses provide an opportunity to apply their training to new and broader problems and to benefit from the experience of seeing their own subject from the points of view of several specialists. To facilitate free discussion registration is generally restricted to a limited number of well-qualified students.

## LANGUAGE HOUSES

Wyndham is a small residence open to upperclassmen who wish to speak French. Living in the language house requires adequate preparation in French, and students accepted agree not to speak English in the French House at any time. Residence in a language house provides an excellent opportunity to gain fluency in speaking a foreign language and is highly advisable for students planning to spend the junior year abroad. Whenever there is sufficient demand, similar residences are available to students of German and Spanish.

## THE JUNIOR YEAR ABROAD

Qualified students may apply for admission to the various groups spending the junior year in Europe. Bryn Mawr students may study in Paris under the Junior Year in France Plan sponsored by Sweet Briar College; in Geneva, Florence, or Madrid with groups organized by Smith College, or in Munich with the group sponsored by Wayne University. Applicants must have excellent academic records and must give evidence of competence in the language of the country where they plan to study. In general, two years of study at the college level are necessary to provide adequate language preparation. The junior year groups are not limited to language majors; they often include majors in,

for example, History of Art, History or the Social Sciences. All students who plan to study abroad should consult the chairmen of their major departments to be certain that the work done in Europe may be coordinated with the general plan for the major subject.

#### SCHOLARSHIPS AND OTHER STUDENT AID

All students are, strictly speaking, on scholarship in the sense that their tuition fees do not wholly cover the costs of instruction. To those students well-qualified for education in liberal arts and sciences but unable to meet the college fees, Bryn Mawr is able to offer further scholarship aid. Alumnae and friends of the College over many years have built up endowment for scholarships. Annual gifts from alumnae and alumnae clubs and from industries add to the amounts available each year. It is now possible to provide at least partial scholarships for a quarter to a third of the undergraduate students. Full information about the scholarships available and other forms of help for meeting the expenses of college education will be found in the section, Academic Awards.







# Courses of Study

1959-1960

## *Key to Course Numbers and Symbols*

- 1, 2, 3 ..... indicate elementary and intermediate courses.  
With the exception of Greek 1 and Russian  
1 these courses are not part of the major  
work.
- 101, 102, etc. ... indicate first-year courses in the major work.
- 201, 202, etc. ... indicate second-year courses in the major  
work.
- 301, 302, etc. ... indicate advanced courses in the major work.
- \* ..... indicates elective courses, open to all students  
without prerequisite unless a specific pre-  
requisite is stated.
- a ..... the letter "a," following a number, indicates  
a half-course given in the first semester.
- b ..... the letter "b," following a number, indicates  
a half-course given in the second semester.
- c ..... the letter "c," following a number, indicates  
a half-course given two hours a week  
throughout the year.
- [ ] ..... Square brackets enclosing the titles of courses  
indicate that these courses, though regular  
parts of the program, are not given in the  
current year.

In general, courses which are listed as full-year courses must be carried through two semesters. In some cases one semester of such a course may be taken with credit, but only with permission of the Dean of the College and the department concerned. Students are reminded that one unit of work carried throughout the year is the equivalent of eight semester hours.

## Biology

PROFESSORS:	MARY S. GARDINER, PH.D., <i>Chairman</i> L. JOE BERRY, PH.D. ELEANOR A. BLISS, SC.D. JANE M. OPPENHEIMER, PH.D. <sup>1</sup>
ASSISTANT PROFESSOR:	ROBERT L. CONNER, PH.D.
INSTRUCTOR:	ROBERT G. BEARD, PH.D.
ASSISTANTS:	ANNE E. HUDOCK, A.B. NELLY J. K. LINCOLN, A.B. JANE R. McCONNELL, PH.D. SHARON D. MESSENGER, A.B.

The courses offered are designed to present the principles underlying biological science to liberal arts students interested in man's understanding of the world in which he lives and his own position in it. Primary consideration is devoted to the interplay of development, structure and function in determining the unity and diversity which characterize the plant and animal kingdoms, and to the historical and dynamic interrelationships of living organisms with each other and with their environments. In the laboratory the student learns by dissection and microscopic study the gross and detailed anatomy of representative animals and plants, and by experimentation the functional relationships within them and their operation under natural and controlled experimental conditions.

REQUIREMENTS IN THE MAJOR SUBJECT: Biology 101, 201 and 202; one advanced course, and as allied work, Chemistry 101 and 202. Students offering two fields in Biology for the final examination, in addition to the examination in General Biology, must take two advanced courses. Physics 101, Mathematics 101 and Chemistry 201 are strongly recommended as allied work and are required for admission to some medical schools. The Biology Department has no special language requirements, but students should note that the ability to read French and German is essential for those expecting to do graduate work and is required for admission to some medical schools.

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1. On sabbatical leave for the year 1959-1960.

ALLIED SUBJECTS: Chemistry, Physics. Other subjects may be included, with the approval of the Department and the Dean of the College.

101. *General Biology*: Mr. Berry, Miss Gardiner, Mr. Conner, Mr. Beard.

A presentation of the fundamental principles of development, structure and function in organisms. A wide range of plants and animals is studied to illustrate broad biological problems and theories of historical and contemporary interest. Lectures three hours, laboratory four hours per week.

201. *The Biology and Physiology of Vertebrates*: Mr. Beard, Mr. Berry.

A study, supplementing that of the first-year course, of the anatomy of representative vertebrates, their physiology and natural history. Lectures three hours, laboratory four hours per week.

202. *Invertebrate Biology and Cellular Physiology*: Miss Gardiner, Mr. Conner.

A survey of the anatomy and natural history of the invertebrates and a study of the functional problems met by living systems and of the mechanisms by which these are solved. Lectures three hours, laboratory four hours per week. Prerequisites: Chemistry 101, Chemistry 202 (may be taken concurrently).

301. *Theories of Inheritance*: Miss Gardiner.

A study of the various theories of inheritance leading to modern concepts of heredity in organisms.

[302. *Developmental Physiology*: Miss Oppenheimer.]

Discussion of factors controlling growth and differentiation in vertebrates and invertebrates. Lectures two hours, laboratory six hours (minimum) per week. This may be taken concurrently with Biology 202.

[303. *Physiology of Micro-organisms*: Mr. Berry.]

An introduction to the fundamental physiological and biochemical principles associated with studies of micro-organisms, including host-parasite relationships and other interactions between organisms. Major emphasis is given to bacteria and bacteriological techniques. Lectures two hours, laboratory six hours (minimum) per week. Prerequisites: Biology 202, Chemistry 202.

[304. *Micro-anatomy*: Miss Gardiner.]

The study of tissues and cells, with consideration of the methods of preparing material for microscopic study.

305. *Biochemistry*: Mr. Conner.

The chemistry of living organisms with special emphasis on the chemical principles in physiological phenomena. Lectures two hours, laboratory six hours (minimum) per week. Prerequisites: Chemistry 202; Physics 101 is strongly recommended.

[306. *Biophysics*: Mr. Berry.]

A study of the advantages and limitations of applying methods and theories of physics or of physical chemistry to living systems. Topics for discussion may be selected by the class. Lectures two hours, laboratory six hours (minimum) per week. Prerequisites: Biology 202, Chemistry 202; Physics 101 is strongly recommended.

FINAL EXAMINATION: The final examination is in three parts:

1. General Biology (required of all students).
2. Two examinations from the following group: Biochemistry, Biophysics, Theories of Inheritance, Development of Scientific Thought, Embryology, Micro-anatomy, Physiology of Micro-organisms.
3. For one of the examinations in Part 2, students may substitute:  
the Honors paper  
or  
an examination in Chemistry or Physics covering at least two years of work in the subject.

Other subjects may be accepted for the third examination provided that at least two years of work have been done in the one offered.

HONORS WORK: Honors work in any of the advanced fields is offered to qualified students.

## Chemistry

PROFESSOR:	ERNST BERLINER, PH.D. <i>Chairman</i>
ASSOCIATE PROFESSOR:	GEORGE L. ZIMMERMAN, PH.D.
ASSISTANT PROFESSORS:	FRANK B. MALLORY, PH.D. JOSEPH VARIMBI, PH.D.
LECTURER:	FRANCES BONDHUS BERLINER, PH.D.
ASSISTANTS:	PRISCILLA CARNEY, A.B. JANICE GORDON, M.A. ADELAIDE W. MAUCK, A.B. LAWRENCE VERBIT, B.A.

The major in Chemistry is designed to give the student a sound background in the four major fields of Chemistry: Inorganic, Analytical, Organic and Physical Chemistry. The courses are arranged in such a sequence as to convey an insight into the development of chemical theories from basic scientific principles. In the advanced courses the student begins to be acquainted with current problems in special fields and with modern approaches to their solutions. The emphasis throughout is on the fundamental principles on which Chemistry is based and which are exemplified and further clarified by laboratory work taken in conjunction with each course.

REQUIREMENTS IN THE MAJOR SUBJECT: Chemistry 101, all 200 courses and one and one-half units of advanced work. Physics 101, Mathematics 101 and a reading knowledge of German and of French or Russian are also required. Students are urged to take also Mathematics 201.

ALLIED SUBJECTS: Biology, Geology, Mathematics, Physics.

101a. *General Chemistry*: Mr. Mallory and assistants.

An introduction to the theories of chemistry and the study of the non-metals. No knowledge of chemistry is presupposed. Three lectures, four hours laboratory a week.

101b. *Qualitative Analysis and the Chemistry of the Metals*: Mr. Berliner and assistants.

Systematic qualitative analysis of inorganic substances and the theories on which it is based. A study of the metallic elements. Three lectures, four hours laboratory a week.

201a. *Quantitative Analysis* (first semester): Mr. Varimbi.

Theories and practice of the quantitative determination and separation of inorganic substances. Two lectures, eight hours laboratory a week.

202. *Organic Chemistry*: Mr. Berliner, Mr. Mallory.

First semester: aliphatic chemistry; second semester: aromatic chemistry and natural products. Three lectures, five hours laboratory a week.

203. *Physical Chemistry*: Mr. Zimmerman, Mr. Varimbi.

Structure and kinetic-molecular theory of matter, elementary thermodynamics and chemical kinetics. Two lectures, five hours laboratory a week. Prerequisites: Mathematics 101 and Physics 101. (The latter may be taken concurrently.)

301b. *Inorganic Chemistry*: Mr. Varimbi.

A systematic study of the descriptive and theoretical chemistry of the elements and their compounds based on the Periodic Table. Two lectures, six hours laboratory a week.

302 (a and b). *Advanced Organic Chemistry*: Mr. Mallory, Mr. Berliner.

Lectures: theories and fundamental principles of organic chemistry. Laboratory: (first semester) organic qualitative analysis; (second semester) advanced synthesis and quantitative organic analysis. Two lectures, six hours laboratory a week. The first semester may be taken without the second ( $\frac{1}{2}$  unit).

303 (a and b). *Advanced Physical Chemistry*: Mr. Zimmerman, Mr. Varimbi.

First semester: systematic chemical thermodynamics; second semester: atomic and nuclear structure, elementary quantum theory. Two lectures, six hours laboratory a week. The first term may be taken without the second ( $\frac{1}{2}$  unit).

FINAL EXAMINATION: The examination consists of three parts:

1. General Chemistry (required of all students).
2. Two examinations from the following group: a. Analytical Chemistry, b. Organic Chemistry, c. Physical Chemistry.
3. For one of the subjects in Group 2, an examination in an allied subject, covering at least two years of work, may be offered. In that case the student need take only one unit of advanced work.

HONORS WORK: Honors work may be taken by qualified students in conjunction with any of the advanced courses or after their completion.

## Classical and Near Eastern Archaeology

ASSOCIATE PROFESSOR:	MACHTELD JOHANNA MELLINK, PH.D., <i>Chairman</i>
ASSISTANT PROFESSOR:	ALEXANDER CAMBITOGLOU, PH.D.
INSTRUCTOR:	BRUNILDE SISMONDO RIDGWAY, PH.D.
ELLA RIEGEL POST- DOCTORAL FELLOW:	ANN HARNWELL ASHMEAD, PH.D.
PROFESSOR OF ANTHROPOLOGY:	<hr/> FREDERICA DE LAGUNA, PH.D.

The major courses provide an extensive survey of the ancient Mediterranean civilizations, with emphasis on the Greek arts of sculpture, architecture and vase-painting.

Lectures are illustrated by lantern slides; and for most courses photographs are available for study and review. A term paper or report is normally required.

REQUIREMENTS IN THE MAJOR SUBJECT: Classical Archaeology 101, 201, 203 and 301.

ALLIED SUBJECTS: Ancient History, Anthropology, Greek, History of Art, Latin.

101. *An Introduction to Ancient Art*: Miss Mellink, Mr. Cambitoglou, Mrs. Ridgway.

In the first semester a general survey of the evolution of ancient art is given, beginning with the Egyptian and Mesopotamian heritage and tracing its importance first to Aegean art and then to the origins of Greek art proper. The major achievements of archaic and classical Greek art are discussed in some detail.

In the second semester the principal features of Hellenistic, Etruscan and Roman art in Italy and throughout the Mediterranean world are studied down to the end of the Roman Empire in the West, ca. A.D. 476.

A fourth hour weekly is devoted to informal conference and discussion.

201a. *Egyptian and Mesopotamian Archaeology*: Miss Mellink.

An introduction to the cultures of the ancient Near East, stressing the origins of civilization and the rise of local traditions.

201b. *Aegean Archaeology*: Miss Mellink.

The pre-Greek cultures of the Aegean area; Minoan Crete and its relations; the encounter of pre-Greeks and Hellenes; the first consolidation and expansion of Greek culture in the Mycenaean age.

[202a. *Ancient Greek Cities and Sanctuaries*.]

A course considering in a comprehensive way the ancient form and general cultural importance of such sites as Athens, Delphi and Olympia, with emphasis on history, religion and mythology connected with each center.

202b.\* *Cultural History of Archaeology*: Miss Mellink.

The development of archaeology through the ages: antiquarian interests, early excavations and travels, the position and future of archaeology as a modern discipline.

203a. *Greek Sculpture*: Mr. Cambitoglou.

The development of Greek sculpture from its beginnings to Roman times. The term paper deals with some piece of sculpture selected by the student.

203b. *Later Greek and Roman Sculpture*: Mr. Cambitoglou.

The development of Roman sculpture from its beginnings in Etruscan and Greek Italy and the Hellenistic world to the end of the Roman Empire in the West, ca. A.D. 476. The term paper deals with individual monuments or groups of sculpture selected by the student.

[204. *American Archaeology*: Miss de Laguna (See Anthropology 204).]

301a. *Ancient Painting*: Mr. Cambitoglou.

The development of Greek vase-painting as an original form of art, its relations to monumental painting, and its place in Greek archaeological research.

301b. *Ancient Architecture*: Mrs. Ridgway.

The ancient architectural tradition in its historical context, with special study of the Greek temple as its dominant achievement.

[302a. *The Greek Style in Art*: Miss Mellink.]

An analysis of the originality and consistency of style in the various fields of Greek art. The course will be conducted as a



discussion group with reports and a term paper. Prerequisites: Classical and Near Eastern Archaeology 101, 201, 203, 301.

**FINAL EXAMINATION:** Three papers on any three of the fields covered by the undergraduate lecture courses, but with questions of broader scope involving more extensive knowledge. During their senior year majors attend weekly one-hour conferences in each of their selected fields. If a student wishes, she may write one of the three papers in an allied field.

**HONORS WORK:** A long written paper is submitted on a topic selected by the student and approved by the Department. In preparation, the student confers throughout the year with the member of the Department under whom the paper is prepared.

## Economics

PROFESSORS:	MILDRED BENEDICT NORTHROP, PH.D., <i>Chairman</i>
	JOSHUA C. HUBBARD, PH.D. <sup>1</sup>
ASSOCIATE PROFESSOR:	MORTON S. BARATZ, PH.D.
LECTURER:	LAURA E. ROMINE, M.A.

This major is designed (1) to provide the student with an understanding of the institutions and processes of the economic world in which we live, (2) to train her in the methods by which these institutions and processes may be analyzed, and (3) to enable her to evaluate the role played by economic forces in the political and social issues of the day.

**REQUIREMENTS IN THE MAJOR SUBJECT:** Economics 101, two units elected from 201, 202 and 203, and 301. Students are urged to take Mathematics 204 (Statistics) which will count as part of their allied work.

**ALLIED SUBJECTS:** Political Science, History, Philosophy, Psychology, Mathematics, Sociology and Anthropology, Modern Languages. Particular attention is called to the following courses as of special interest to Economics majors: Political Science 210b and Political Science 307b.

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1. On sabbatical leave for the year 1959-1960.

101. *Introduction to Economics*: Miss Northrop, Mr. Baratz.

This course analyzes the major problems involved in the allocation of resources, the distribution of income, the maintenance of economic stability, the provision of social security and international economic relationships.

201a. *Industrial Structure and Market Behavior*: Mr. Baratz.

Theoretical and empirical analysis of the structure of industrial markets and the behavior of business firms in a competitive economy; legal restrictions on business policy; social and political implications of public regulation of private enterprises.

201b. *International Economics*: Miss Northrop.

A study of international trade and international finance in theory and practice; the foreign economic policy of the United States; international economic organization; the impact of industrialism on underdeveloped nations.

202a. *Money and Banking*: Mrs. Romine.

The development and present organization of the money and banking system of the United States; domestic and international problems of monetary theory and policy.

202b. *Public Finance and Fiscal Policy*: Mr. Baratz.

A study of local, State and Federal revenues and expenditures with particular emphasis on the Federal budget; fiscal policy as a positive means of shaping public taxation and expenditure so as to contribute to a stable full employment economy.

203a. *The Labor Movement*: Mrs. Romine.

Economic and political causes of the development of the labor movement in the United States and Europe; the role of government in a competitive economy.

203b. *Employer-Labor Relations*: Mrs. Romine.

The nature of the collective bargaining contract; wage determination in theory and practice; causes of labor disputes and methods of settlement.

301a. *History of Economic Thought*: Miss Northrop.

An analysis of economic thought in the 18th and 19th centuries as it developed against the background of social and political change. Readings, among others, in the works of Smith, Malthus, Ricardo, Mill, Marx, Jevons and Marshall.

301b. *Contemporary Economic Thought*: Mrs. Romine.

An analysis of economic thought in the 20th century. The national income, economic growth, fluctuations in economic activity, the determinants in the level of income and employment.

302b. *Comparative Economic Systems*: Miss Northrop.

A study of the major forms of economic organization with particular emphasis on those existing today.

FINAL EXAMINATION: The final examination for students majoring in Economics is in three parts:

1. An examination in general economic principles and problems.
2. An examination in Economic Theory.
3. An examination in one of the following:
  - a. Money and Banking, including Fiscal Policy
  - b. Industrial Structure and Market Behavior
  - c. International Economics
  - d. The Business Cycle and Full Employment
  - e. Labor Economics including Wages and Wage Theory
  - f. The History of Economic Thought

With the permission of the major and allied departments, one paper may deal with an allied subject.

HONORS WORK: One unit of Honors work may be taken by students recommended by the Department.

## Education

PRESIDENT

OF THE COLLEGE:

KATHARINE ELIZABETH McBRIDE,  
PH.D., LL.D., L.H.D., SC.D.

PROFESSOR AND DIRECTOR,

CHILD STUDY INSTITUTE:

RACHEL DUNAWAY COX, PH.D.,  
*Chairman*

LECTURER AND DIRECTOR,

THORNE SCHOOL:

SUSAN E. MAXFIELD, M.S.

LECTURER:

ETHEL W. MAW, PH.D.

ASSISTANT:

LELIA BRODERSEN, M.A.

The work in Education is designed for students preparing for teaching or for work with children in a variety of fields. The curriculum treats the nature and development of the child, the psychology of teaching and learning, and principles of measurement. It deals with the history, philosophy and objectives of the school as a social institution.

Though there is no major in Education, a sequence of courses in the Department will enable the student to utilize her liberal education in teaching. This sequence will satisfy the requirements of most states for certification to teach in the secondary school. It will provide a substantial part of the work required for the elementary teaching certificate. The student who wishes to prepare for teaching should consult with the chairman of the Department early in her college course. A course in General Psychology is a prerequisite to all the advanced work of the Department and should be taken not later than the sophomore year.

Practice-teaching, supervised by master teachers and integrated with an advanced course at the College, is carried on in the nearby schools of the Lower Merion Township.

The Phebe Anna Thorne School is maintained by the Department of Education as a laboratory for child study where undergraduates have experience with young children as part of the course work. The pre-school program, in which advanced students assist, provides training for those planning to teach.

The Department also operates the Child Study Institute. This is a clinic supported jointly by the College and the Lower Merion Township Schools for work in Child Development. Problems of learning and behavior are studied; psychological testing and remedial teaching are carried on. A program of counseling for children and their parents renders help in school and family adjustment. Advanced students participate in the work, and undergraduate and graduate students observe in the schools.

Referrals also come to the Institute from the neurological and pediatric departments of the Bryn Mawr Hospital, from psychiatrists and from social agencies giving the students the opportunity for acquaintance with a diversity of clinical material. Rooms are equipped for the individual examination of pupils, remedial teaching, play therapy and student observation. Sound recording facilities are available for the study and improvement of counseling and testing techniques.

101b. *Principles of Education*: Miss McBride.

The organization and objectives of the school and the principles of child development, of learning and of guidance that should be taken into account if these objectives are to be achieved. [102b. *History of Education*: Mrs. Maw.]

A study of the inter-relation of education and culture from earliest times to the present day with consideration to current

educational issues as they are rooted in the historical process.

201a. *Educational Psychology*: Mrs. Cox.

Principles of Psychology applied to teaching and learning. Problems of motivation, evaluation and adjustment. Group process and learning. Two hours laboratory per week.

[202a. *Child Psychology*: Miss McBride, Mrs. Cox.]

The development of the child from infancy to maturity. Physical, intellectual and emotional growth and learning in the family and the school. Two hours laboratory per week in the Thorne School. Prerequisite: Psychology 101.

301a. *Principles of Teaching in the Secondary School*: Mrs. Maw.

The objectives, curriculum and organization of the secondary school. The nature of the learner and his relation to the school program and aims. Two-hour seminar per week; 12 hours practice-teaching in the junior or senior high school.

302a. *Principles of Teaching in the Elementary School*: Mrs. Maw.

The objectives and curriculum of the elementary school. The nature of the learner and the learning process during the early school years. Two-hour seminar per week; 12 hours practice-teaching in the elementary school.

## English

### PROFESSORS:

K. LAURENCE STAPLETON, A.B.

*Chairman*

STEPHEN JOSEPH HERBEN, B.LITT., PH.D.

ARTHUR COLBY SPRAGUE, PH.D.

MARY KATHARINE WOODWORTH, PH.D.

BETTINA LINN, M.A.

### VISITING PROFESSOR:

SAMUEL C. CHEW, PH.D., LITT.D.

### ASSOCIATE PROFESSOR:

WARNER B. BERTHOFF, PH.D.

### ASSISTANT PROFESSORS:

DAVID BONNELL GREEN, PH.D.

ISABEL GAMBLE MACCAFFREY, PH.D.

ROBERT HAWES BUTMAN, M.A.

### INSTRUCTORS:

ANN EVANS BERTHOFF, M.A.

SANDRA M. BERWIND, A.B.

RAMONA T. LIVINGSTON, A.B.

CATHERINE RODGERS, B.A.

ISABELLE K. SATTERTHWAITE, A.B.

ROBERT A. WALLACE, A.B.

To the student planning to major in English the Department offers courses covering all periods of English literature. The student selects her fields within this broad range and devotes special attention to one period or literary genre.

**REQUIREMENTS IN THE MAJOR SUBJECT:** Students majoring in English must take English 101 unless they have the recommendation of the Department to enter a second-year course. They must complete four second-year and advanced courses in English literature, of which at least one should be an advanced course. Students who wish to specialize in the field of Old and Middle English must take some courses in later periods, and those specializing in modern literature must take English 201 or, in exceptional cases, certain other courses approved by the Department. Credit will not be given for a single semester's work in full-year courses unless the Dean of the College recommends, and the Department approves, that an exception be made.

**ALLIED SUBJECTS:** Any other language or literature, History, History of Art, History of Religion, Music, Philosophy and certain courses in Classical Archaeology. Students are advised to devote one unit of allied work to a course in Greek or Latin or Greek Literature in Translation. Any second-year or advanced writing course may be substituted for one unit of allied work.

#### WRITING, LANGUAGE, AND SPEECH

15. *English Composition and Reading:* Miss Linn, Mrs. MacCaffrey, Mr. Green, Mrs. Livingston, Mr. Wallace, Mrs. Berthoff, Miss Rodgers, Mrs. Satterthwaite, Mrs. Berwind.

Practice in writing based upon the study of selected authors, with emphasis upon ideas and the problems of the writer in his time. The student will read fiction, poetry, and critical and argumentative prose in one of the following fields: (a) Literature of the twentieth century; (b) American Literature, 1840 to the present; (c) English Literature from 1830-1900. There will be weekly papers and discussions, and regular conferences with each student.

*In 209, 215a and 306 weekly papers are usually required. Students who cannot meet this requirement should not elect any of these courses.*

209.\* *Experimental Writing*: Mr. Wallace.

Practice in various forms of writing, fiction and non-fiction. Attention is paid to the needs and interests of each student. Prerequisite: English 15 at Bryn Mawr or the written permission of the instructor.

210a.\* *Playwriting and Production*: Mr. Butman.

Writing of two original one-act plays.

210b.\* *Advanced Playwriting and Production*: Mr. Butman.

Writing of a full-length play and preparation of its production-book. Prerequisite: approval of the instructor.

[211.\* *Verse Composition*: Miss Stapleton.]

Original verse composition, with a study of the principles of form.

213b.\* *History of the English Language*: Mr. Herben.

215a.\* *Prose Writing*: Miss Linn.

Practice in various forms, excluding fiction and with emphasis on exposition and description. Prerequisite: English 15 at Bryn Mawr or the written permission of the instructor.

[306\* and 306c.\* *Advanced Writing*: Miss Linn.]

Practice in various forms of writing with the emphasis on technical problems. Prerequisite: English 209.

## LITERATURE

101. *Introduction to English Literature*: Mrs. MacCaffrey, Miss Rodgers.

A critical study of major works and representative writers, with emphasis upon the historical context and the growth of literary tradition.

201. *English Literature of the Middle Ages*: Mr. Herben.

The emphasis is upon Chaucer and his contemporaries. Sufficient instruction is given in Middle English to enable the student to read ordinary texts.

202. *Shakespeare*: Mr. Sprague.

In the first semester all the plays are read, and in the second semester two or three are studied in detail.

203. *The Romantic Period*: Mr. Green.

English Literature from 1789 to 1832. Attention is centered upon the poets.

- [204. *The Victorian Period*: Mr. Green.]

Attention is centered upon the poets.

- [205. *Representative English Novelists*: Miss Linn.]

A study of the development of English fiction, and of the novel as a literary form, through the works of selected novelists in the eighteenth and nineteenth centuries. Prerequisite: the reading of two novels by each of the following: Charlotte Brontë, Dickens, Thackeray, George Eliot, Meredith.

- 206a. *English Drama from the Restoration to Robertson*: Mr. Sprague.

- [206b. *Modern English Drama*: Mr. Sprague.]

The drama from 1865 to the present day.

207. *English and American Literature of the Last Half-Century*: Miss Woodworth.

The modern movement, its experiments and tendencies, with concentrated study of major writers, Yeats, Joyce, Eliot and others.

208. *American Literature*: Mr. Berthoff.

From the beginnings to the present day.

- 212b. *Blake*: Miss Woodworth.

A study of the poetry, prose, paintings and engravings of Blake, with emphasis on intellectual history and the development of art in the period.

- 213a. *Mediaeval Narrative*: Mr. Herben.

Vernacular narrative literature of the West, from epic to romance. Works not in English will be read in translation.

- 214a.\* *English Prose of the Sixteenth Century*: Mrs. MacCaffrey.

The main intellectual currents of the period are studied, with reading in the major prose writers.

- [301. *Old English Literature*: Mr. Herben.]

After some training in Old English grammar, selections from prose and poetry are read, followed by the *Beowulf*.

- [302a. *The Drama from the Beginnings to 1642*: Mr. Sprague.]

A rapid survey of earlier periods is followed by closer study of Elizabethan and Jacobean drama, excluding Shakespeare.



[303b. *English Poetry from Spenser to Donne*: Mr. Sprague.]

The principal poets studied are Spenser, Sidney, Shakespeare (the narrative poems and the sonnets), and Donne.

304. *The Seventeenth Century*: Miss Stapleton.

Among the writers studied are Bacon; Donne and the Metaphysical poets; Ben Jonson and his school; Sir Thomas Browne. About a third of the time is devoted to Milton, and special attention is given to the thought of the period.

[305. *The Eighteenth Century*: Miss Woodworth.]

The age of Pope and Swift; the rise of the novel; Dr. Johnson and his circle.

FINAL EXAMINATION: The final examination is in three parts:

1. Literary criticism, literary genres, and problems of style. Based upon the reading of certain critical works of fundamental importance. Each student is expected to draw illustrative material from the fields in which she has elected to work.
2. An examination in one of the following periods. The student must choose a period other than that which embraces her special field.
  - a. The Middle Ages (to 1500)
  - b. The Renaissance (1500-1660)
  - c. Neo-Classicism and Romanticism (1660-1832)
  - d. The Nineteenth and Twentieth Centuries (English or English and American)
3. An examination in one of the following fields of concentration: Old English; Middle English; The Drama to 1642; Elizabethan Literature, non-dramatic; The Seventeenth Century; The Eighteenth Century; Romanticism; Victorian Literature; The Novel; The Drama from 1660 to the Present Time; English and American Literature, 1890-1939; American Literature.

With the consent of the Department an examination in an allied subject may be substituted for the examination in the special field.

HONORS WORK: In the senior year Honors work, consisting of independent reading, reports and conferences, is offered to students of marked ability.

## French

ASSOCIATE PROFESSOR:	MARIO MAURIN, PH.D., <i>Chairman</i>
VISITING PROFESSOR:	WILLIAM J. ROACH, PH.D.
ASSISTANT PROFESSORS:	MICHEL GUGGENHEIM, PH.D. PHILIP KOCH, PH.D.
VISITING LECTURER:	MICHEL M. F. BUTOR, <i>Lic. de Phil., D.E.S.Ph.</i>
INSTRUCTORS:	MIREILLE AZIBERT, <i>Lic. ès L.</i> MADELYN G. GUTWIRTH, PH.D.

The major in French includes work in both literature and language. In the first year students are introduced to the study of French literature, and special attention is given to the speaking and writing of French. Two second-year courses treat French literature from the beginning to the present day. In the advanced courses a more detailed study of certain authors, genres and movements is made. One second-year course is devoted to increasing the students' competence in spoken and written French. Students are encouraged to supplement their classroom study of the language by spending the Junior year in France, or a summer in France or French-speaking surroundings, or by living for a year or two in the French house.

REQUIREMENTS IN THE MAJOR SUBJECT: French 101, 201, 202 and one advanced literature course. Students whose preparation for college has included advanced work in language and literature may, with the consent of the Department, be admitted to French 201, and substitute an advanced course for French 101.

ALLIED SUBJECTS: Any other language or literature, European History, History of Art, Music, Philosophy.

1. *Elementary French*: Mr. Guggenheim, Miss Azibert.

The speaking and understanding of French are emphasized, particularly during the first semester. The course, which meets five times a week, is the equivalent of two years of school French.

2. *Intermediate French*: Members of the Department.

The emphasis on speaking and understanding French is continued, texts from French literature are read, and short papers are written in French.

101. *Readings in French Literature with Practical Exercises in the French Language*: Members of the Department.

The works read are chosen from various periods and genres, and include drama, poetry, novels and short stories. Oral expression and practice in writing are emphasized.

201. *French Literature from the Chanson de Roland to 1800*: Mr. Guggenheim, Mr. Koch.

202. *French Literature from 1800 to 1950*: Mr. Guggenheim, Miss Azibert.

- 203c. *Advanced Training in the French Language*: Miss Azibert, Mr. Guggenheim.

301. *French Lyric Poetry*: Mr. Maurin, Mr. Butor.

In the first semester special attention is given to the poetry of the sixteenth and early seventeenth centuries, and in the second, to the poetry of the last hundred years.

- [302. *French Drama*: Mr. Maurin, Mr. Koch.]

Special study is made of the drama of the seventeenth and twentieth centuries.

- [303. *The French Novel from 1700 to 1950*: Mr. Guggenheim.]

304. *French Essayists and Moralists*: Mr. Koch, Mr. Butor.

Man and his world as interpreted by such writers as Montaigne, Pascal, Diderot, Gide, Camus and Sartre.

**JUNIOR YEAR ABROAD:** Students majoring in French may, by a joint recommendation of the Dean of the College and the Department of French, be allowed to spend their Junior year in Paris under the Junior Year in France Plan, organized by Sweet Briar College.

**FINAL EXAMINATION:** The final examination is in three parts:

1. An oral examination to test the student's command of the French language.
2. A three-hour written examination on a period of French literature.
3. A three-hour written examination on the development of a literary genre through French literature.

An examination in an allied subject may be substituted for one of the two written examinations.

**HONORS WORK:** On the recommendation of the Department, students in their senior year will be admitted to Honors work consisting of independent reading, conferences and a long paper.

## Geology

PROFESSORS:	EDWARD H. WATSON, PH. D., <i>Chairman</i> LINCOLN DRYDEN, PH.D. DOROTHY WYCKOFF, PH.D.
INSTRUCTOR:	FREDERIC G. LAYMAN, M.S.
ASSISTANT:	KAREN E. WIER, B.S.

Geology seeks to make students more aware of the physical, natural world around them; to teach them how the present landscapes have been formed, and how modern plants and animals have evolved from earlier kinds. Physical processes like erosion, volcanic activity, and earthquakes form one large part of the subject; the history of the earth and the organisms which have peopled it form another. Geology borrows widely from its sister sciences, combining many disciplines into an attack on the problem of the earth itself. An essential part of any geologic training lies beyond the classroom, in field work.

REQUIREMENTS IN THE MAJOR SUBJECT: Geology 101, 201, 202, one advanced course. In addition, at least one of the following first-year courses is normally required: Biology, Chemistry, or Physics. The sixth unit may be chosen in Geology or in an allied field approved by the Department.

ALLIED SUBJECTS: Biology, Chemistry, Physics, Mathematics. Anthropology, Archaeology, Economics or Statistics may be accepted in special cases.

101a. *Physical Geology*: Mr. Watson, Miss Wyckoff, Mr. Layman, Miss Wier.

A study of the atmosphere, weathering, stream action, oceans, glaciers, earthquakes and volcanoes, and of the structures to which they give rise. Three lectures, four hours of laboratory or field work a week.

101b. *Historical Geology*: Mr. Dryden, Miss Wyckoff, Mr. Layman, Miss Wier.

The history of the earth from its beginning, and the evolution of the living forms which have populated it. Three lectures, two afternoons of laboratory or field work a week. A three-day field trip is taken in the spring.

201. *Mineralogy*: Mr. Watson.

Crystallography, elementary crystal optics, descriptive and determinative mineralogy, and elementary petrology and economic geology. Three lectures, six hours of laboratory work a week.

[202. *Paleontology*: Mr. Dryden.]

A systematic survey of animal groups in geologic time; in addition, a study of the environment of fossil life, and theories of evolution.

[301. *Structural and Field Geology*: Mr. Watson.]

The origin and analysis of the structures of igneous, sedimentary and metamorphic rocks, and geological surveying. Three lectures, six hours of laboratory or field work a week.

302. *Stratigraphy*: Mr. Dryden.

The origin and formation of sedimentary rocks; geologic history of typical regions of the United States; elements of petroleum geology; and study of the Ice Age.

303. *Optical Mineralogy* (first semester) and *Petrology* (second semester): Miss Wyckoff, Mr. Watson, Mr. Layman.

The optical properties of minerals and the use of the petrographic microscope. Discussion of the origin and differentiation of igneous rocks. Two lectures, about twelve hours of laboratory a week. Credit: 1½ units.

[304. *Cartography*: Mr. Watson, Miss Wyckoff.]

Field surveying, drafting, photogrammetry, elementary geomorphology and general cartography. Open to students without previous work in Geology. Two lectures, two afternoons of laboratory a week.

[305. *Geography*: Miss Wyckoff.]

Discussion of geographic factors such as climate, soils, vegetation, land forms and mineral resources. General principles of economic and political geography. Three lectures, one afternoon of laboratory a week.

306. *The Development of Scientific Thought*: Miss Wyckoff, Miss Lehr, and other members of the faculty.

(See Interdepartmental Course 203, page 107.)

FINAL EXAMINATION: This is in three parts:

1. An examination in General Geology.
2. An examination in some special field in Geology.
3. One of the following:
  - a. An additional special examination in Geology
  - b. A general examination in an allied field
  - c. A written report on a piece of individual work

HONORS WORK: Honors work in any of the advanced fields is offered to any student who has completed the first two years in Geology with distinction.

## German

ASSOCIATE PROFESSOR:	CHRISTOPH E. SCHWEITZER, PH.D., <i>Chairman</i>
ASSISTANT PROFESSORS:	MARTHA M. DIEZ, M.A. HUGO SCHMIDT, PH.D.
LECTURER:	BURGHART WACHINGER, PH.D.
INSTRUCTOR:	KATRIN TAEGER, M.A.

The purpose of the major in German is to lay the foundation for an understanding and appreciation of German literature and civilization. To this end comprehension of the German language, of both the spoken and the printed word, is indispensable; all courses above German 1 are therefore given in German and progressive linguistic training is provided. This work should be supplemented, whenever possible, by living in the German House, or by spending a summer in the Middlebury Summer School or in one of the summer schools of Germany, Austria or Switzerland; and/or by spending the Junior year in Munich with the Wayne University Group.

REQUIREMENTS IN THE MAJOR SUBJECT: Students majoring in German will be expected to take three units above the elementary level, including German 202 and at least one advanced course.

ALLIED SUBJECTS: Any language or literature, History, Philosophy, Music, History of Art. The Department will advise which courses in these fields are acceptable.

1. *Elementary German* (Speaking and Reading): Members of the Department.

The course, meeting five times a week, offers the foundation of the language according to the aural-oral method, with emphasis on reading in the second semester.

101. *Introduction to German Literature*: Mr. Schmidt.

Survey of the main periods of German literature. Interpretation of texts from the early period to the present; brief oral and written reports.

- [201c. *German Composition*.]

Practice in the writing of German, based on readings in the cultural history of Germany; continued linguistic training.

202. *The Age of Goethe*: Mr. Schweitzer.

German literary movements in the period 1750-1830, with emphasis upon the life and works of Goethe and his contemporaries. Brief written reports on reading.

- [301. *Advanced Training in Translation*.]

- [302. *The Classics of the Nineteenth Century*: Mr. Schmidt.]

A survey of German literary developments from the death of Goethe to Nietzsche and Hauptmann, with special emphasis upon the great dramatists and lyric poets. Short critical papers.

303. *Modern German Literature*: Mr. Schweitzer.

Reading and discussion of works from dramatists (Hauptmann, Brecht, Dürrenmatt), novelists (Mann, Kafka, Hesse) and lyric poets (Rilke, George, Hofmannsthal). Short critical papers.

- [304. *Introduction to German Philology*.]

Development of the German language in the various periods. Analysis of important works.

- [305. *Middle High German Literature*.]

Reading of important works, partly in translation, partly in the original.

- [306. *The German "Novelle"*: Mr. Schmidt.]

After a brief survey of earlier phases of this form, the course deals with its development from Goethe to Thomas Mann. Short critical papers.

[307. *The German Drama*: Mr. Schweitzer.]

The history of the German drama from Lessing and the Period of the Enlightenment to modern times. Short critical papers.

FINAL EXAMINATION: The final examination for students majoring in German consists of three papers:

1. An examination on selected topics from the history of German literature, to be written in German.
2. An examination on the history of a literary form, or on the History of the German Language, or on an allied subject.
3. An examination on a period of German literature, or on an allied subject, if none has been offered under 2.

HONORS WORK: Qualified students are admitted to Honors work on the recommendation of the Department.

## Greek

PROFESSORS:

RICHMOND LATTIMORE, PH.D., LITT.D.,  
*Chairman*

MABEL LOUISE LANG, PH.D.<sup>1</sup>

INSTRUCTORS:

HARRY C. AVERY, M.A.

ROSAMOND KENT SPRAGUE, PH.D.

The courses in language and literature are designed to acquaint the students with the various aspects of ancient Greek culture through a mastery of the Greek language and a comprehension of Greek mythology, religion and the other basic forms of expression through which that culture developed. The works of epic and tragic poets, philosophers and historians are studied both in their historical context and in relation to subsequent Western thought.

REQUIREMENTS IN THE MAJOR SUBJECT: Greek 1, 101, 201 or 202, and 301. The fields of specialization in Greek 301 will be decided by each student in consultation with the Department.

ALLIED SUBJECTS: Ancient History, Classical Archaeology, any language, Philosophy.

1. *Elementary Greek*: Mrs. Sprague.

Elements of grammar with prose composition and selected reading from ancient authors and the *New Testament* in the first semester; in the second semester, the *Apology* of Plato.

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1. On sabbatical leave for the year 1959-1960.



101. *Herodotus and Tragedy*: Mr. Lattimore, Mr. Avery.

Private reading and prose composition are required.

102c. *Homer*: Mr. Lattimore.

202. *Thucydides and Drama*: Mr. Avery.

Private reading and prose composition are required.

[301. *Hesiod, Lyric, and Aristophanes*: Miss Lang, Mr. Lattimore.]

The student selects her work from this field in consultation with the Department.

203.\* *Greek Literature in Translation*: Mr. Lattimore, Mr. Avery.

The epic, lyric and dramatic poetry as well as the early prose works are examined and interpreted as expressions of Greek culture.

FINAL EXAMINATION: The final examination for students majoring in Greek consists of:

1. Sight Translation of Greek to English.
2. Two papers from the following fields: Homer, Attic Tragedy, Lyric Poetry and Aristophanes, Fifth-Century Historians, Fourth-Century Attic Prose. A student may substitute for one of these, a paper in one of the Allied Subjects.

HONORS WORK: Honors may be taken either in conjunction with advanced courses or after their completion.

## History

PROFESSORS:	CAROLINE ROBBINS, PH.D., <i>Chairman</i> FELIX GILBERT, PH.D. <sup>1</sup>
VISITING PROFESSOR:	HENRY R. WINKLER, PH.D.
ASSOCIATE PROFESSOR:	ARTHUR P. DUDDEN, PH.D. <sup>2</sup>
ASSISTANT PROFESSORS:	DAVID J. HERLIHY, PH.D. RAYMOND F. BETTS, D. d'Univ., PH.D.
INSTRUCTORS:	JANE SCHWARTZ BENJAMIN, PH.D. MARY MAPLES, PH.D.
PROFESSOR OF LATIN:	THOMAS ROBERT SHANNON BROUGHTON, PH.D. <sup>3</sup>
INSTRUCTOR IN LATIN:	LYDIA HALLE LENAGHAN, PH.D.

1. On part-time sabbatical leave for the year 1959-1960.

2. On sabbatical leave for the year 1959-1960.

3. On leave of absence and sabbatical leave for the years 1959-1961.

The chief aim of the History major is to give the student a sense of historical perspective and an insight into historical method. The development of ideas and institutions—political, social and economic—is stressed rather than the accumulation of data about particular events. At the same time a more intensive study of certain topics and periods is required of every student in order to train her in the use of documents and to enable her to evaluate different kinds of source material. Extensive reading is assigned in all courses to familiarize History majors with the best historical writing and, in every year course except History 101, critical or narrative essays are required.

**REQUIREMENTS IN THE MAJOR SUBJECT:** In general, students are expected to offer four units of History and two units of allied work, the selection of courses depending upon the student's desire to specialize in Modern, Mediaeval or Ancient History. Students concentrating in Modern History must take some work in Ancient or Mediaeval History. History 301 is required of all students offering Modern History for the Final Examination; History 305, for all students offering Mediaeval History, or an equivalent approved by the Department.

**ALLIED WORK:** Courses in Economics and Political Science are recommended for History majors. Advanced courses in Philosophy, History of Art, Literature, Anthropology and Sociology are accepted as allied work if the subject matter is related to that of the History courses elected. For students specializing in Mediaeval and Ancient History, Greek, Latin and Archaeology are especially recommended.

101. *Mediaeval and Modern Europe:* Members of the Department.

The purpose of this course is to give a broad view of the development of European civilization from the fall of Rome to the present day as a general background for courses in other departments as well as for more advanced history courses. Students who have had a general survey in school in their last two years should elect instead of 101: 201, 202, 203, 204, 207 or 208.

201. *History of England to 1783:* Miss Robbins.

The treatment is topical, although a general chronology is maintained. Prehistoric Roman, Saxon, Norman and later English society, constitutional, economic and intellectual devel-

opment are among the subjects studied. Ireland, Scotland and Wales receive special attention. This course is open to all students. Given in alternate years.

202. *History of the United States*: Miss Maples.

A survey of American civilization to the present day. The first semester covers colonial and national developments to the end of the Civil War period. The second semester accounts for the emergence of modern America.

[203. *Mediaeval Civilization*: Mr. Herlihy.]

Western European development from the fall of Rome to about 1350. Economic, institutional and intellectual developments in the major kingdoms of the West and the history of the Latin Church will be included. Given in alternate years.

204a. *Revolutionary Europe 1787-1850*: Mr. Betts.

About one half of the semester is devoted to the French Revolution; the second half to the spread of revolutionary ideas and the idea of nationalism throughout Western Europe during the Napoleonic period and the first half of the Nineteenth Century culminating in the Revolution of 1848.

204b. *Europe and Its Expansion in the Nineteenth Century*: Mr. Betts.

European, continental, and overseas development from the period of the Revolution of 1848 until the end of the Boer War in 1902. Stress will be placed on industrial developments, imperialism; on European activities in Africa, Asia and the Near East.

205.\* *Ancient History*: Mrs. Lenaghan.

The first semester is devoted to study of the history of the ancient Near East and of Greece to the rise of Macedon; the second to the history of Rome and the hellenistic world to the reign of Constantine I. The course demands essays, and reading of typical sources for each period.

[206. *History of Russia*: Mr. Herlihy, Mr. Gilbert.]

A survey of Russian history until the Revolution of 1917. The first semester is devoted to Russian history until Peter the Great; special emphasis will be placed on the Byzantine background of Russian history. The second semester deals with Russia under Tsarism.

208. *Social and Economic History of Mediaeval and Early Modern Europe*: Mr. Herlihy.

Topics considered include European economic geography, agricultural settlements, demographic trends, rise of the manor and seigneurie, rise and development of towns, agricultural and industrial technology, commerce and commercial institutions, social structure and economic theories. Particular attention is paid to the period between the seigneurial-urban revolution of the eleventh century and the industrial revolution of the eighteenth.

301. *Europe in the Twentieth Century*: Mr. Betts.

The first semester reaches and includes the settlement after the first World War; the second, the events from 1919 to the present. The course deals not only with diplomatic events but special emphasis is placed on the internal developments in the European states and on their social structure.

303a. *The Expansion of the American Nation*: Miss Maples.

The period stressed ranges from the last quarter of the nineteenth century to the end of the first World War. Inquiry is directed to the fundamental problems posed for the United States by industrialism, large-scale immigration, populism, progressivism, and imperialism.

[303b. *The American People in the Recent Past*: Mr. Dudden.]

The United States in our time, emphasizing historic political, social, economic, and intellectual developments since the first World War.

[304a. *English History in the Nineteenth Century*: Miss Robbins.]

Special attention is given to the structure of English government and its adaptation to modern economic and social conditions as well as to the growth of the second empire and its institutions. Given in alternate years.

[305. *Renaissance and Reformation*: Mr. Gilbert.]

The course is concerned with European History from the fourteenth to the sixteenth century. The first term deals with the Renaissance, the second with the Reformation. Emphasis will be placed not only on the political and social developments, but also on the intellectual history of the period. Given in alternate years.

306a. *The Enlightenment*: Miss Robbins.

The intellectual history of the seventeenth and eighteenth centuries is studied in seminar discussions of selected books illustrating, amongst other things, the scientific revolution, the growth of skepticism, the traveler and the movement of ideas, morality and taste, optimism, the philosophic critics and analysts of government, law and international relations. Open only to upperclassmen.

306b. *Great Historians*: Miss Robbins.

Each week the work of one or two historians is read and discussed in relation to the historical and scholarly presuppositions of its age. Emphasis is laid on reading and analysis rather than on any attempted survey of historical literature. The course, however, pursues a roughly chronological order starting with the Greeks and ending with Spengler and Toynbee.

FINAL EXAMINATION: The final examination for students in History consists of three papers, two of which must deal with general European history. Unless special permission is given by the Department these two fields should form a sequence in mediæval or in modern history. The fields offered are as follows:

1. Ancient History to A.D. 378 (Special field)
2. History of Europe 378 to 1300
3. History of Europe 1300 to 1648
4. History of Europe 1648 to 1830
5. History of Europe 1830 to 1950
6. History of England (Special field)
7. History of the United States (Special field)
8. History of Russia (Special field)

The papers in Ancient, English, Russian and American history will be based on concentrated study of a special field selected by the Department to meet the needs of the senior class. With the consent of the departments concerned a student may write her third paper in a field of allied work.

HONORS WORK: Students admitted to this work meet the instructor regularly for the discussion of reading in a selected period. An essay based on source material must be presented before May 1. The award of the degree with Honors in History will depend on the character of this honors paper and on the candidate's performance in the final examination.

## History of Art

PROFESSOR:	ALEXANDER COBURN SOPER, M.F.A., PH.D., <i>Chairman</i>
VISITING PROFESSOR:	CHARLES MITCHELL, M.A., B.LITT.
ASSOCIATE PROFESSORS:	JAMES W. FOWLE, PH.D. WILLIAM C. LOERKE, M.F.A., PH.D.
ARTIST IN RESIDENCE:	FRITZ JANSCHKA
ASSISTANT:	HSIO-YEN SHIH, M.A.
CURATOR OF SLIDES:	SANDRA GREEN LOVELL, A.B.

The major in History of Art is designed to furnish a basic understanding of the fine arts as they have evolved in Western and Far Eastern cultures. After a thorough grounding in general historical developments, the student advances to a more detailed study of particular fields in courses on the second-year and advanced levels. Considerable latitude of choice is allowed, but the major program must constitute a coherent whole.

Under the guidance of the Artist in Residence, work in creative art is offered to all interested students. There is no tuition fee, and academic credit is not granted for this work.

REQUIREMENTS IN THE MAJOR SUBJECT: A minimum of four full courses (or the equivalent) is required for a major: Art 101 and three other courses, one of which shall be considered an advanced course.

ALLIED SUBJECTS: Classical and Near Eastern Archaeology (it is expected that students majoring in Art History will take Archaeology 101 as an allied subject, preferably as early in their college careers as possible), English, Modern Languages, History, Philosophy, Music, Anthropology and History of Religion.

101. *An Introduction to the History of European Art*: Mr. Loerke, Mr. Mitchell.

A survey of the development of Western art since the Greco-Roman period. Studio work in basic principles of design, color and technique will be required (two hours weekly, in conjunction with the three lectures and one hour of classroom conference).

2012. *Northern Renaissance Art*: Mr. Soper.

Concerned primarily with the transition from late Gothic to Renaissance in France, the Netherlands and Germany.

202. *Italian Art*: Mr. Mitchell.

The arts of Italy from the thirteenth to the eighteenth centuries.

203. *Mediaeval Art*: Mr. Loerke.

The first semester will cover the West European and Near Eastern arts of the Christian period roughly to the eleventh century; the second, Romanesque and Gothic art.

301.\* *The Art of the Far East*.

Emphasis will be placed in the following order on (1) the art of China beginning with the Bronze Age; (2) the art of Japan in the historic period; (3) the early stages of Buddhist art in India and Central Asia.

302. *Modern Art*: Mr. Fowle.

From the Neo-classic period to the present day.

**FINAL EXAMINATION:** The final examination for students majoring in the History of Art consists of three parts of three hours each:

1. An examination conducted with slides and/or photographs testing the student's ability to identify important monuments and to analyze stylistic and iconographic elements within the field of major concentration.
2. A written examination on fundamental problems of style, evolution and cultural relationships in art.
3. A detailed examination on some special field of European or Far Eastern art history, chosen by the individual student after consultation with the Department.

**HONORS WORK:** Honors work is offered to students recommended by the Department.

## History of Religion

PROFESSOR OF LATIN: AGNES KIRSOPP MICHELS, PH.D.

PROFESSOR OF PHILOSOPHY

AND RELIGION:

GEDDES MACGREGOR, D.D., D.ès L.,  
LL.B.

Courses in the History of Religion are designed to supplement the work offered in other departments. While no major

work is offered in the History of Religion, certain departments accept these courses as allied work. Philosophy of Religion may be taken in the Department of Philosophy as one of the fields for the Final Examination in the Major Subject.

103. *Literary History of the Bible*: Mrs. Michels.

The history of the Bible, with special emphasis on analysis of text and on literary forms.

201a. *Comparative Religion*: Mr. MacGregor.

201b. *History of Christian Thought*: Mr. MacGregor.

203a. *Philosophy of Religion*: Mr. MacGregor.

203b. *Mediaeval Philosophy*: Mr. MacGregor.

## Italian

PROFESSOR:

ANGELINE HELEN LOGRASSO, PH.D., *Chairman*  
Appointment to be announced

The aims of the major are to acquire a knowledge of the Italian language and literature and to acquire an understanding of Italian culture and its contribution to Western civilization. All courses with the exception of the course in Dante are conducted in Italian. Majors in Italian are urged to spend the Junior Year in Italy or to study in approved summer schools in Italy or in the United States.

REQUIREMENTS IN THE MAJOR SUBJECT: Italian 1, 201, 202, and two other advanced courses.

ALLIED SUBJECTS: Any other language or literature, History, History of Art, Philosophy, Music, Political Science; with departmental approval, any other field allied to the student's special interests.

1. *Italian Language*: Miss Lograsso.

A practical knowledge of the language is acquired through hearing, speaking, writing, and reading, going from concrete situations to the expression of abstract ideas and with a gradual introduction to the reading of Italian literature. The course meets five times a week.

101. *Intermediate Course in the Italian Language*: Miss Lograsso.

Readings from modern Italian authors and topics assigned for composition and discussion.



102c.\* *Dante in English Translation*: Miss Lograsso.  
The *New Life* and *Divine Comedy*.

[103c.\* *Literature of the Italian Renaissance in English Translation*: Miss Lograsso.]

From Petrarch to Tasso; pastoral literature; literary criticism and aesthetic theories of the Renaissance, with special reference to their influence on other literatures.

201. *Classics in Italian Literature*: Miss Lograsso.

Reading and explanation of texts, with a study of literary history; conducted mostly in Italian.

[202. *Dante*: Miss Lograsso.]

The *Vita Nuova* and *Divina Commedia*, with some attention to the minor works. With departmental approval, open to anyone who can read Italian.

[302c. *Advanced Course in the Italian Language*: Miss Lograsso.]  
Advanced work in composition.

[303. *Italian Literature of the Rinascimento*: Miss Lograsso.]

[304. *Italian Literature of the Romantic Period*: Miss Lograsso.]

## JUNIOR YEAR ABROAD

Students approved by the Department and the Dean of the College may be recommended for the Junior year in Perugia and Florence under the auspices of the Smith College Group.

FINAL EXAMINATION: The final examination consists of three parts:

1. The Italian Language: ability to understand and speak the spoken idiom; and ability to write it.
2. Italian Literature and Literary History.
3. The study of a single genre or topic throughout Italian literature, or a paper on an allied subject.

For the second part, the emphasis may be placed on the Mediaeval, Renaissance, Romantic or Modern period.

HONORS WORK: After the completion of the second-year course a student may be recommended for Honors in Italian. The student works in a special field adapted to her own interest under the direction of the Department.

## Latin

PROFESSORS: THOMAS ROBERT SHANNON BROUGHTON, PH.D.<sup>1</sup>  
BERTHE MARIE MARTI, PH.D., *Acting Chairman*  
AGNES KIRSOPP MICHELS, PH.D.

INSTRUCTORS: GABRIELE SCHOEPFLICH HOENIGSWALD, M.A.  
LYDIA HALLE LENAGHAN, PH.D.

The major in Latin is planned to give the students familiarity, through careful reading in the original, with the most important works of Latin literature and an understanding of Roman civilization as revealed in literature. A further aim of the major is to give the students some sense of the importance of Roman literature in our tradition and of the contribution of Roman civilization to the modern world. Study of language and style is an essential part of the work, but only one course is entirely devoted to such study. Students are given an opportunity to choose whether they wish to work intensively on literary criticism or on problems dealing with Roman civilization.

REQUIREMENTS IN THE MAJOR SUBJECT: Latin 101, 201 and either 301 or 302. Honors students are required to take Latin 203. Students who plan to teach Latin are advised to take this course.

ALLIED SUBJECTS: History, Classical and Near Eastern Archaeology, Greek, History of Art, History of Religion, Philosophy, any modern literature.

1. *Elementary Latin*: Mrs. Michels.

This course is planned to cover three units of entrance Latin. Students who have completed it satisfactorily may take Latin 101.

2. *Intermediate Latin*: Mrs. Hoenigswald.

The course includes a review of grammar and reading in prose and poetry equivalent to two years of entrance Latin. Prerequisite: two units of entrance Latin.

101. *Latin Literature*: Miss Marti, Mrs. Lenaghan, Mrs. Hoenigswald.

Students with four units of entrance Latin will be placed in a separate section. Selections will be read from the poems of

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1. On leave of absence and sabbatical leave for the years 1959-1961.

Catullus, a play of Plautus, the *Eclogues* of Vergil and from Lucretius in the first semester; and from Livy's *History* and the *Odes* of Horace in the second. Prerequisite: at least three units of entrance Latin.

201a. *Plautus, Terence, and Horace*: Mrs. Lenaghan.

Reading in the plays of Plautus and Terence during the first half of the semester and from the *Satires* and the *Epistles* of Horace during the second.

201b. *Latin Literature of the Silver Age*: Miss Marti.

Reading from the works of the chief authors with special attention to the development of literary types during the period.

202c.\* *Mediaeval Latin Literature*: Miss Marti.

The reading includes selections from the most important mediaeval writers from St. Augustine to Thomas Aquinas. Prerequisite: four units of entrance Latin or Latin 2, or Latin 101.

203. *Latin Style*: Mrs. Hoenigswald, Mrs. Michels.

A study of the style and technique of the main Roman authors and of the chief metres of Roman poetry with practice in the writing of Latin prose and verse. This course may be taken as one half-unit throughout the year by students wishing to omit the material on versification.

[301a. *Vergil's Aeneid*: Mrs. Michels.]

[301b. *Tacitus and Livy*: Miss Marti.]

302a. *Cicero and Caesar*: Mrs. Michels.

302b. *Lucretius*: Mrs. Lenaghan.

FINAL EXAMINATION: The final examination for students majoring in Latin consists of three three-hour papers in the following fields:

1. Latin Sight Translation.
2. An examination on one of the following subjects:
  - a. Latin Literature of the Republic
  - b. Latin Literature of the Empire
  - c. Latin Literature of the Ciceronian and Augustan Age
  - d. Roman History from the Sources (100 B.C. to 70 A.D.)

3. An examination on one of the following subjects:
  - a. An allied subject (Students are advised if possible to take the third paper in Greek)
  - b. A second subject from Group 2 (Choice must avoid duplication of material)
  - c. The development in Latin literature of an important literary type
  - d. An important period or type in Mediaeval Latin Literature
  - e. Latin Prose Style

HONORS WORK: Honors work either in classical or in mediaeval Latin is offered to qualified seniors. The subject will be determined by the interests of the student. The work is carried out under the direction of one member of the Department and the results are presented in a paper.

## Mathematics

PROFESSORS:

JOHN C. OXTOBY, M.A., *Chairman*  
MARGUERITE LEHR, PH.D.

ASSOCIATE PROFESSOR:

FREDERIC C. CUNNINGHAM, JR., PH.D.

ASSISTANTS:

LOUISE F. HUTCHINSON, M.A.  
DOROTHEA J. RHEA, M.A.

The major is designed to provide a balanced introduction to the subject, emphasizing its nature both as a deductive and as an applied science, at the same time providing the technical foundation for more advanced study. The courses in calculus are basic for all applications of mathematical analysis and for more advanced work in function theory. The courses in algebra and geometry introduce the student to some of the unifying ideas and postulational methods that are characteristic of much of modern mathematics.

REQUIREMENTS IN THE MAJOR SUBJECT: Mathematics 101, 201, 202C, 301, 303a, and at least one other advanced half course.

ALLIED SUBJECTS: Chemistry, Economics, Philosophy, Physics and Psychology.

101. *Analytic Geometry and Calculus*: Miss Lehr, Mr. Oxtoby.  
Plane analytic geometry, including the necessary elements

of trigonometry; Differential Calculus of both algebraic and transcendental functions; an introduction to integration. The interplay between mathematical ideas and applications is stressed.

201. *Second Year Calculus*: Mr. Cunningham.

The definite and indefinite integral, infinite series, partial derivatives, multiple integrals, differential equations, with applications to geometry, physics, and chemistry.

202c. *Solid Analytic Geometry and Algebra*: Mr. Oxtoby.

Determinants, vectors, matrices, and selected topics from the Theory of Equations; linear algebra motivated by and applied to space geometry; classification and transformation of planes and quadric surfaces.

301. *Advanced Calculus*: Mr. Cunningham.

The classical theory of real functions, based on Cantor's construction of the real number system; the Riemann integral, functions defined by power series, Fourier series, functions of several variables. Prerequisite: Mathematics 201.

302b. *Introduction to Geometric Theories*: Miss Lehr.

Analytic generalizations and group-theoretic classification, as related to postulational methods and the problem of introducing coordinates. Development motivated from the basic projective, Euclidean, and non-Euclidean space theories. Prerequisite: Mathematics 202c.

303a. *Introduction to Abstract Algebra*: Miss Lehr.

Permutations, linear transformations, abstract groups, rings, and fields; postulational characterization of number systems. Prerequisite: Mathematics 202c.

[304a. *Theory of Probability and Statistics*: Miss Lehr.]

Mathematical formulation of problems of statistical inference, exhibiting the inherent probability aspect. Probability distributions for discrete and continuous ranges; sampling theory; central limit theorems; tests of hypotheses. Prerequisite: Mathematics 201.

[305b. *Topics in Differential Geometry*: Miss Lehr.]

[310. *Theory of Functions of a Complex Variable*: Mr. Oxtoby.]

Special functions, conformal mapping, the general theory according to Cauchy, singular points, Laurent series, series of

partial fractions, infinite products, elliptic functions. Prerequisite: Mathematics 301.

[311b. *Differential Equations*: Mr. Oxtoby.]

General methods, existence theorems, linear equations and Wronskians, oscillation and separation theorems, partial differential equations and boundary-value problems.

[204.\* *Introduction to Probability and Statistics*: Miss Lehr.]

A course designed to develop the mathematical vocabulary necessary for study of quantitative data. Descriptive methods for frequency distributions and time series; correlation. Elements of probability, sampling, and tests of significance.

**FINAL EXAMINATION:** The final examination consists of three parts: (a) an examination in analysis, (b) an examination in algebra and geometry, and (c) an examination in some particular branch of advanced analysis or geometry, or in an allied field.

**HONORS WORK:** Qualified students are admitted to Honors work on recommendation of the Department.

## Music

PROFESSOR AND DIRECTOR

OF ENSEMBLE GROUPS:

AGI JAMBOR, M.A.

VISITING PROFESSOR:

HORACE ALWYNE, F.R.M.C.M.

ASSOCIATE PROFESSOR AND

DIRECTOR OF CHORUS:

ROBERT L. GOODALE, A.B., B.MUS.,  
A.A.G.O., *Chairman*

ASSISTANT PROFESSOR:

SYLVIA W. KENNEY, B.MUS., PH.D.

ASSISTANT:

ELIZABETH E. BOOTH, M.A.

DIRECTOR OF ORCHESTRA:

WILLIAM REESE, PH.D.

The purpose of the Music major is to enable the student to appreciate the significance of music from an historical and sociological as well as from an aesthetic point of view and to develop a technique of intelligent listening, a faculty of critical judgment, and the ability to use the materials of music as a means of expression for creative talent.

Students in the courses in History and Appreciation of Music must devote two hours or more a week to listening to gramophone records assigned by the Department.

REQUIREMENTS IN THE MAJOR SUBJECT: Music 101, 102, and at least two and one-half units of additional work, the selection of courses depending upon the student's desire to specialize in the history and literature of music or the technique of composition. A student intending to major in Music must have sufficient knowledge of pianoforte or organ playing to enable her to play music of the technical difficulty of a Bach figured chorale. She is strongly urged to be a member of the Chorus or the Orchestra and/or an Ensemble Group.

ALLIED SUBJECTS: History, History of Art, Modern Languages, English, Greek, Latin, Philosophy, History of Religion.

101. *An Introduction to the History and Appreciation of Music*: Miss Kenney.

A general survey of music in western civilization, with emphasis on the evolution of polyphonic music from the tenth to the twentieth century.

102. *Music Materials*: Mr. Goodale.

A course in the elements of theory. The study of harmony and counterpoint, simple formal analysis, and an introduction to orchestration.

201. *The Romantic Period*: Mr. Alwyne.

An intensive study of nineteenth-century music. The Symphonic Poem, Art-Song and Music-Drama. Expansion of orchestral and pianoforte technique; development of symphonic and chamber-music forms; growth of nationalism. Prerequisite: Music 101 or its equivalent.

202. *Advanced Theory and Analysis*: Mr. Goodale.

A continuation of Music 102, with emphasis on analysis (harmonic, contrapuntal and formal) of larger forms. Prerequisite: Music 102 or its equivalent.

203c. *Bach*: Mme Jambor.

Prerequisite: Music 101 or its equivalent.

204c. *The Classical Period*: Mme Jambor.

Prerequisite: Music 101 or its equivalent.

[301a. *Opera and Music Drama*: Miss Kenney.]

The rise of opera in the seventeenth century. Studies in opera technique and theory from the time of Monteverdi through Wagner. Prerequisites: Music 101 and 102 or their equivalents.

[301b. *Music of the Twentieth Century*: Mr. Goodale.]

An historical and analytical survey of the main trends of contemporary music. Prerequisites: Music 101, 102, and 202 or their equivalents.

302a. *Mediaeval Music*: Miss Kenney.

The rise of liturgical music in the early Christian Church. The development of polyphony in the tenth century, and the evolution of sacred and secular music up to 1450. Prerequisites: Music 101 and 102 or their equivalents. Given in alternate years with Music 301a.

302b. *Renaissance and Baroque Music*: Miss Kenney.

The great periods of vocal counterpoint during the fifteenth and sixteenth centuries. The creation of new forms in the seventeenth century and the development of dramatic and instrumental music up to the time of Bach. Prerequisites: Music 101 and 102 or their equivalents. Given in alternate years with Music 301b.

303a. *Orchestration*: Mr. Goodale.

Prerequisites: Music 101, 102, and 202 or their equivalents. Music 202 may be taken concurrently with this course.

304c. *Interpretation of Keyboard Music, Seventeenth Century to the Present*: Mme Jambor.

Prerequisites: Music 101 and 102 or their equivalents.

305. *Free Composition*: Mr. Goodale.

This course is designed for those students whose chief interest lies in the field of composition. It may be taken only with the permission of the instructor.

**HONORS WORK:** Honors work is offered for students recommended by the Department.

**FINAL EXAMINATION:** The final examination consists of three parts with three-hour papers in each:

1. The History of Music.
2. The Theory of Music.
3. Special field, which may be taken in an allied subject.

The following organizations, carrying no academic credit, are sponsored by the Department:



*The College Chorus*, a group of about 90 members. The Chorus participates in concerts with choruses from men's colleges and also takes part in the College chapel services. Major works for women's chorus and mixed chorus are studied and performed. The Double Octet, drawn from the Chorus on a competitive basis, frequently sings at concerts and occasionally goes on trips as an independent unit.

*The Orchestra*, organized jointly with Haverford College. It plays concerts of its own, and frequently joins the Chorus in the presentation of major works.

*The Ensemble Groups*, also organized jointly with Haverford College. Students in these groups are afforded the opportunity of studying chamber-music literature at first hand, as well as the experience of playing in public at student recitals.

Lessons in pianoforte, organ and voice may be taken at the student's expense, with no academic credit. Lessons in other instruments may be arranged locally or in Philadelphia. The Department will be glad to assist in these arrangements.

## Philosophy

### PROFESSORS:

MILTON CHARLES NAHM, B.LITT.,  
PH.D., *Chairman*

JOSÉ MARIA FERRATER MORA, *Lic. F.L.*  
GEDDES MACGREGOR, D.D., *D. ès L.*, LL.B.  
ISABEL SCRIBNER STEARNS, PH.D.

### VISITING PROFESSOR:

PAUL SCHRECKER, PH.D., LL.D.

### ASSOCIATE PROFESSOR:

HUGUES LEBLANC, PH.D.

### LECTURER:

GEORGE L. KLINE, PH.D.

### INSTRUCTOR:

BEATRICE YAMASAKI, M.A.

### ASSISTANT:

SARA ANN CANER, M.A.

The major work is planned to acquaint the student with the historical and systematic interrelations of the significant philosophic concepts in Western thought, as well as to provide training in the techniques proper to the subject.

The History of Philosophic Thought provides the major students with a common background, training and language. Further study offers not only historical information but insight

into methodology and systematization, with training in the techniques of logic and theory of value. Metaphysics, aesthetics, and the other advanced studies, besides their intrinsic importance, show the relations of philosophy to art, science, history, mathematics, and religion.

The Department aims to provide training sufficiently broad in scope and technical in procedure to equip the student for analytical, critical, and productive speculation.

**REQUIREMENTS IN THE MAJOR SUBJECT:** Students majoring in Philosophy are required to take the first-year course, the second year half-courses in German Idealism, Logic, Ethics, and either Recent Metaphysics or Mediaeval Philosophy, and one advanced course. With permission, students may take second-year courses for third-year credit.

**ALLIED SUBJECTS:** Biology, Chemistry, Economics, English, Greek, French, History, Latin, Mathematics, Music, Physics, Political Science, Psychology, and certain courses in History of Religion and Sociology and Anthropology.

101. *History of Philosophic Thought:* Mr. Nahm, Mr. Ferrater Mora, Miss Stearns, Mr. MacGregor, Mr. Leblanc, Miss Yamasaki.

Some writings of the major philosophers, classic and modern, are studied and discussed.

- 201a. *German Idealism:* Mr. Ferrater Mora.

The philosophy of Kant.

- 201b. *Recent Metaphysics:* Miss Stearns.

The metaphysics of Bradley, Bergson, Whitehead, and related thinkers.

- 202a. *Logic:* Mr. Leblanc.

An introduction to modern logic.

- 202b. *Ethics:* Mr. Nahm.

The theory and problems of various types of ethics, hedonist, utilitarian, rational and idealist, with particular emphasis upon the analysis of action and judgment, rightness and goodness, and obligation.

- 203a. *Philosophy of Religion:* Mr. MacGregor.

The philosophical problems arising out of religious ideas; the nature and interpretation of religion.

203b. *Mediaeval Philosophy*: Mr. MacGregor.

The history of the development of mediaeval philosophy, with more detailed study and discussion of the Thomist solution of the mediaeval problem and the basis of a modern interpretation of Thomism.

204a. *Hegel*: Mr. Kline.

A study of Hegel's philosophy, with emphasis upon *The Phenomenology of Mind* and with some reference to the Hegelian influence on Existentialism.

301a. *Aesthetics*: Mr. Nahm.

Types of aesthetic theory and problems concerning art, fine art, productivity, aesthetic judgment and aesthetic experience.

301b. *Theory of Knowledge*: Mr. Leblanc.

An analysis of the scope, structure, and methods of science in the light of recent philosophy.

302a. *Plato*: Miss Stearns.

A detailed study of some of the later dialogues.

[302b. *Philosophy of History*: Mr. Ferrater Mora.]

The philosophical interpretation of history, its meanings and laws.

[303b. *Contemporary Philosophy*: Mr. Ferrater Mora.]

An outline and appraisal of some major present-day schools, such as Phenomenology, Existentialism, Logical Positivism, Neo-Scholasticism, Marxism and others.

304b. *Aristotle*: Mr. Ferrater Mora.

A study of Aristotle's system, with emphasis upon such fundamental problems as language, substance, change, being, and the Prime Mover.

**FINAL EXAMINATION:** The final examination consists of three papers in the following fields, offering a wide choice of questions: Ancient Philosophy, Modern Philosophy, Systematic Philosophy or Philosophy of Religion. For the first two papers, a subject such as "causation," "mind," "freedom," or "time" is studied in the writings of important philosophers. For the third paper, a field in Philosophy of Religion or the philosophy of an important modern thinker is intensively examined.

**HONORS WORK:** Honors work consists of independent reading and conferences with the instructor, directed to the preparation of a paper on a subject dealing with the technical problems of philosophy or emphasizing the connection of philosophy with general literature, history, politics, and science, or with some special field in which the student is working.

## Physics

PROFESSOR:	WALTER C. MICHELS, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	ROSALIE C. HOYT, PH.D. JOHN R. PRUETT, PH.D.
ASSISTANT PROFESSOR:	CHARLES MILLER, PH.D.
ASSISTANTS:	KENNETH L. LAWS, M.S. EMERSON E. EBERT, M.S. MILLARD G. MIER, A.B.

The plan for the Physics major is based on the belief that an acquaintance with the methods used by professional workers in some particular field of intellectual activity is a necessary part of the general education of any student, whether or not that student intends to follow a professional career in the field. The courses offered emphasize the techniques that have led to our present state of understanding of the material universe rather than facts about the universe; they are designed to relate the individual parts of physics to the whole rather than to treat them as separate disciplines. In her progress from a general survey of the subject in her first-year course to the preparation for the final examination in the senior year, the student applies her growing grasp of experimental and logical techniques to increasingly independent studies of physical phenomena.

**REQUIREMENTS IN THE MAJOR SUBJECT:** Physics 101, 201a and 202b, and at least one and one-half units of advanced work, to be chosen from 301-305 inclusive; Chemistry 101; Mathematics 101 and 201. A third unit of Mathematics is strongly recommended.

**ALLIED SUBJECTS:** Biology, Chemistry, Geology, Mathematics, Philosophy, Psychology.

101. *Introduction to Modern Physics:* Mr. Pruett, Mr. Michels.  
A study of the interpretation of the principal phenomena of

classical and modern physics in the light of the developments of the past sixty years. Three lectures and three hours of laboratory a week.

201a. *Electricity and Magnetism*: Miss Hoyt.

Behavior of electric currents, elementary direct current and alternating current circuit theory, magnetic effects of currents, electrostatic phenomena. Three lectures and four hours of laboratory per week. Prerequisites: Physics 101, Mathematics 201 (may be taken concurrently).

202b. *Optics*: Miss Hoyt.

Geometrical optics, interference and diffraction phenomena, polarization. Three lectures and four hours of laboratory per week. Prerequisites: Physics 201a, Mathematics 201 (may be taken concurrently).

301a. *Classical and Statistical Mechanics*: Mr. Miller.

Newtonian mechanics of particles and of rigid bodies, special relativity, applications of mechanics to ensembles with applications to ideal and real gases. Three lectures and four hours laboratory per week. Prerequisites: Physics 201a, 202b, Mathematics 201.

302b. *Atomic and Nuclear Structure*: Mr. Miller.

Experimental evidence for the properties of atoms and nuclei, development of quantum theory, Bohr theory, introduction to wave mechanics and quantum statistics. Three lectures and four hours laboratory per week. Prerequisites: Physics 301a, Mathematics 201.

304. *Introduction to Theoretical Physics*: Mr. Michels.

The foundations of classical mechanics and electromagnetic theory, including generalized mechanics, vibrating systems, the wave equation, Laplace's equation, Maxwell's equations, electromagnetic waves. Vector analysis and mathematical methods are developed as needed. Four lectures a week. Prerequisites: Physics 201a, 201b, 301a and 302b (may be taken concurrently), Mathematics 201. Mathematics 301 or Chemistry 203 may be substituted for Physics 301a and 302b.

305c. *Physical Measurements*: Miss Hoyt, Mr. Miller.

Precision measurements of electromagnetic, optical and atomic phenomena. Four hours of laboratory a week. Prerequisites: Physics 301a and 302b (may be taken concurrently).

[351.\* *Application of Physics to Biology and Chemistry*: Miss Hoyt.]

The emphasis of this course is divided between the experimental techniques and the theoretical methods of physics. Examples of applications of these methods and techniques will be chosen to meet the major interests of the students. Three lectures and four hours of laboratory a week. Prerequisites: Physics 101, Mathematics 101, and second-year work in Chemistry or Biology.

FINAL EXAMINATION: The final examination for students majoring in Physics is in three parts:

1. Foundations of Physical Theory (required of all students).
2. Descriptive Physics. A student may substitute an approved examination in an allied field for this examination.
3. An examination in a special field of physics. The possible subjects include:

Acoustics

Classical Mechanics and Special Relativity

Electricity and Magnetism

Mechanics of the Atom

Optics

Thermodynamics and Statistical Mechanics

HONORS WORK: Honors work may be taken by seniors recommended by the Department. It consists of reading and experimental work on some problem of physics.

## Political Science

*The Caroline McCormick Slade Department of Political Science*

PROFESSOR: ROGER H. WELLS, PH.D., *Chairman*

ASSOCIATE PROFESSORS: PETER BACHRACH, PH.D.

GERTRUDE C. K. LEIGHTON, A.B., LL.B.<sup>1</sup>

ASSISTANT PROFESSOR: MELVILLE T. KENNEDY, JR., PH.D.

ASSISTANT: MILNOR ALEXANDER, M.A.

The major in Political Science is concerned with study of ideas about the purposes of government and with analysis of the structures and processes of modern political communities.

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1. On partial leave of absence for semester I, 1959-1960.

REQUIREMENTS IN THE MAJOR SUBJECT: Political Science 101a and 102b, one unit of second-year work and one unit of advanced work, and Economics 101. The second-year courses in Political Science are open to students who are not majors in the Department if they have completed one unit in allied subjects. With the permission of the Department, various courses at Haverford College may be taken for major or allied credit.

ALLIED SUBJECTS: Economics, Education, History, Philosophy, Psychology, Sociology and Anthropology. With the permission of the Department, certain courses offered by the Modern Language departments may be accepted as allied subjects.

101a. *Political Process in the United States*: Mr. Bachrach, Mr. Kennedy.

An introduction to the study of American political behavior. Major attention is given to the political, economic and social beliefs of democracy and to the governmental institutions and processes through which they are expressed. Decision-making and the sharing of power are examined in relation to the individual and to political parties, pressure groups and public opinion.

102b. *World Political Process*: Miss Leighton, Mr. Kennedy.

An introduction to the study of political behavior at the international level. The course deals with the basic institutions, processes, values and resources common to peoples and nation-states.

201a. *Western Political Theory: 1500 to the Present*: Mr. Bachrach.

A study of the fundamental problems of modern Western political thought, based on an analysis of the writings of the leading theorists.

202b. *International Law*: Miss Leighton.

An examination of the doctrines and practices of international law. Traditional material is considered in the context of the contemporary political process, with some emphasis on methodological problems.

[203a. *Political Parties*: Mr. Wells.]

[204b. *American Constitutional Law*: Mr. Bachrach.]

[205b. *International Organization*: Miss Leighton.]

206a. *American State and Local Government*: Mr. Wells.

A study of intergovernmental relations with special reference to the governmental problem of metropolitan areas.

208b. *Communism and Nationalism in Asia*: Mr. Kennedy.

Survey of the development of modern China, including Sino-Japanese and Sino-Russian relations. The course primarily attempts to throw light on the nature of Communist China.

[209b. *Public Opinion and Propaganda*: Mr. Bachrach.]

210b. *The Soviet System*: Mr. Hunter, Haverford College.

See Interdepartmental Course 210, page 107.

[211b. *Comparative Government: Britain and the Commonwealth*: Miss Leighton.]

213a. *Government and Politics of East Asia*: Mr. Kennedy.

An examination of both traditional and contemporary political ideas and institutions directed particularly to the question of continuity and change in the present scene. The course focuses on China and Japan.

[301. *The Theory and Practice of Democracy*.]

See Interdepartmental Course 301, page 107.

[302b. *Western Political Theory: Plato to 1500*: Mr. Wells.]

303b. *France and Germany*: Mr. Wells.

A study of France and Germany since 1945 against the background of postwar international relations.

[304a. *Public Administration*: Mr. Wells.]

305b. *American Political Theory*: Mr. Bachrach.

The development of American political ideas from the Revolution to the present, with some attention to the English and colonial origins.

306a. *Law and Society*: Miss Leighton.

An introduction to the nature of legal obligation and its relation to selected social institutions. Typical legal problems relating to the family, business and government are discussed.

307b. *The Problem of Power in Contemporary Society*: Mr. Bachrach, Mr. Baratz.

See Interdepartmental Course 307b, page 107.



**FINAL EXAMINATION:** The final examination consists of two three-hour papers, the first of which is the general examination in Political Science and must be taken by all seniors majoring in the Department. The second represents a more limited field and is to be selected from the following: Political Theory; The Legal Process; The American Political Community: Forces and Institutions; World Political Systems: Comparative and International. If desired, the second paper for the final examination may deal with an allied subject. Seniors are expected to attend the weekly senior conference.

**HONORS WORK:** In addition to the course requirements, one unit of Honors work may be taken by Political Science majors under the supervision of members of the Department. This involves a weekly conference by the student with her supervisor; independent reading, research and, where necessary, field work; and a written report or reports on the topic selected, which must be completed by May 1. The degree, however, will be awarded with honors only to those students who have successfully met the requirements.

## Psychology

PROFESSOR:	RACHEL DUNAWAY COX, PH.D.
ASSOCIATE PROFESSORS:	MORTON EDWARD BITTERMAN, PH.D., <i>Chairman</i> DONALD ROBERT BROWN, PH.D. ROBERT SIMON DAVIDON, PH.D. <sup>1</sup>
VISITING LECTURERS:	SEYMOUR FESHBACH, PH.D. PETER MADISON, PH.D. LEO JOSEPH POSTMAN, PH.D.
LECTURER AND POST- DOCTORAL FELLOW:	RICHARD CHARLES GONZALEZ, PH.D.
ASSISTANTS:	ELLEN SPECTOR PLATT, M.A. RALPH TRENT SORENSON, A.B.

The Department offers to the major student a representative account of methods and findings in the principal areas of psychological inquiry. Problems of application are considered, and the relation of psychology to other natural and social sciences is

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1. On sabbatical leave for the year 1959-1960.

emphasized. The major program prepares the student for graduate work.

REQUIREMENTS IN THE MAJOR SUBJECT: Psychology 101; two of the following three courses: Psychology 201a, 302b, 303a; two of the following three courses: Psychology 202b, 205b, 301a; one additional unit in Psychology.

ALLIED SUBJECTS: Anthropology, Biology, Economics, Education, Mathematics, Philosophy, Physics, Political Science and Sociology.

101. *General Psychology*: Mr. Brown.

A survey of basic facts and principles: perception, motivation, emotion, learning, thinking, personality, psychopathology, social processes. Two hours of lecture, one hour of small-group discussion and two hours of laboratory each week.

201a. *Social Psychology*: Mr. Brown.

The psychological determinants of social behavior. Three hours of lecture each week. Prerequisite: an introductory course in social science.

202b. *Comparative Psychology*: Mr. Bitterman.

The psychology of animals: instinctive activities, motivation, learning, group processes, behavior disorders. Laboratory experience with representative organisms. Two hours of lecture and four hours of laboratory each week. Prerequisite: Psychology 101.

204a. *Experimental Methods and Statistics*: Mr. Gonzalez.

Measurement and the design of experiments; descriptive statistics, probability, association, testing of hypotheses. Three hours of lecture and two hours of laboratory each week. Prerequisite: Psychology 101.

205b. *Perception*: Mr. Postman.

Differentiation and organization of the physical environment; bodily processes and inner determinants of perceiving; the self and social environment as perceived. Two hours of lecture and four hours of laboratory each week. Prerequisite: Psychology 101.

301a. *Learning and Thinking*: Mr. Bitterman.

Verbal learning and retention, motor skills, meaning and creative thought. Two hours of lecture and four hours of laboratory each week. Prerequisite: Psychology 101.

302b. *Psychological Testing*: Mrs. Cox.

The clinical study of the individual with particular reference to intelligence, special aptitudes and personality. Construction and use of leading instruments, with opportunity for observation and testing. Three hours of lecture and two hours of laboratory each week. Prerequisite: Psychology 101.

303a. *Psychology of the Normal Personality*: Mr. Madison.

Developmental, clinical and experimental evidence relating to the 'normal' personality. Supervised case-study. Three hours of lecture each week. Prerequisite: Psychology 101 and 302b.

304b. *Psychology of the Abnormal Personality*: Mr. Feshbach.

Concepts of normality, types of abnormality, methods of investigation, and principles of psychotherapy. Three hours of lecture each week and occasional trips to local hospitals for special lectures and demonstrations. Prerequisite: Psychology 303a.

305a and b. *Advanced Experimental Psychology*: Members of the Department.

Specialized training in a selected area of investigation. May be taken in either semester or throughout the year. Prerequisite: permission of the Department.

*Comprehensive Survey*: Mr. Bitterman.

A weekly seminar for senior majors as preparation for the Final Examination which provides opportunity for informal discussion of theoretical and methodological problems at an advanced level. Reading lists are prepared for the summer of the junior year.

FINAL EXAMINATION: The final examination is in three parts:

1. General Psychology.
2. Experimental Methods.
3. A specialized examination in one of the following fields:
  - Comparative Psychology
  - Learning and Thinking
  - Perception
  - Personality, Normal and Abnormal
  - Psychological Testing
  - Social Psychology

An Honors Thesis or (with the approval of the Department) an examination in an allied field may be substituted for Part 3.

HONORS WORK: One unit of Honors work may be taken by students nominated by the Department. This unit may be substituted for Part 3 of the final examination.

## Russian

ASSOCIATE PROFESSOR: FRANCES DE GRAAFF, PH.D., *Chairman*

LECTURERS: GEORGE L. KLINE, PH.D.

OLGA LANG (Graduate, University of Moscow)

INSTRUCTOR: RUTH C. PEARCE, PH.D.

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PROFESSOR OF ENGLISH: BETTINA LINN, M.A.

The Russian major is designed to offer the students the opportunity to learn both to read and speak Russian and to achieve an understanding of the literature, thought and culture of pre-revolutionary as well as contemporary Russia.

REQUIREMENTS IN THE MAJOR SUBJECT: Russian 1, 101, 201 and one advanced course. Also Russian 203 or History 206 (History of Russia). If a student offers Russian for entrance, Russian 203 or History 206 may be substituted.

ALLIED SUBJECTS: History 204b, 206 (strongly recommended), 301; Political Science 201a, 210; any language or literature, History of Art, Music, Philosophy.

1. *Elementary Russian*: Miss de Graaff, Mrs. Pearce.

The basic grammar is learnt and enough vocabulary to enable the student to speak and understand simple Russian and to read simple texts.

101. *Intermediate Russian*: Miss de Graaff, Mrs. Pearce.

Grammar review and composition. Introduction to the Russian literary language. Plays, novels, and some contemporary political material are read.

201. *Readings in Russian Literature*: Mrs. Lang.

Representative writers of the nineteenth century. Conducted mostly in Russian.

[202.\* *General Readings in Russian*: Miss de Graaff.]

Primarily intended for students who want a good reading knowledge of the language, but are not majoring in Russian. The reading texts cover a wide variety of subject matter, such as history, economics, politics, science, as well as literature. Some lectures in Russian about the cultural background of Russia are included, with oral reports by the students and discussion of specific topics in Russian. Prerequisite: two years of Russian.

203.\* *Russian Literature in Translation*: Miss Linn.

The leading Russian writers of the nineteenth century in translation. Students registering for the course should read in the preceding summer the following novels: Dostoevsky's *Crime and Punishment*, Tolstoi's *War and Peace* and two of Turgenev's novels.

An advanced course, given in Russian, is selected from the following:

301. *Russian Poetry of the Nineteenth Century*: Miss de Graaff.

302. *Pushkin and His Time*: Miss de Graaff.

303. *Russian Literature of the Twentieth Century*: Mr. Kline.

304. *Social Trends in Nineteenth Century Russian Literature*: Miss de Graaff.

FINAL EXAMINATION: The final examination for students majoring in Russian consists of three parts:

1. The Russian language: ability to speak and understand the spoken idiom; ability to translate from the Russian.
2. A period of Russian literature.
3. A paper on a single topic of Russian literature or a paper on an allied subject. The Department is especially interested in allied subjects in the social sciences, given as a part of the Three-College Program.

HONORS WORK: Honors work is offered to students recommended by the Department.

## Sociology and Anthropology

### PROFESSOR OF

#### ANTHROPOLOGY:

FREDERICA DE LAGUNA, PH.D.,  
*Chairman*<sup>1</sup>

### ASSOCIATE PROFESSOR:

#### OF SOCIOLOGY:

EUGENE V. SCHNEIDER, PH.D.

### LECTURER

#### IN ANTHROPOLOGY:

EDWARD B. HARPER, PH.D.

### VISITING LECTURER

#### IN SOCIOLOGY:

MARVIN E. WOLFGANG, PH.D.

### INSTRUCTOR

#### IN ANTHROPOLOGY:

JANE GOODALE, PH.D.<sup>2</sup>

### ASSISTANT

#### IN ANTHROPOLOGY:

SUE C. NUTTALL, M.A.

### ASSOCIATE PROFESSOR

#### OF SOCIAL WORK AND

#### SOCIAL RESEARCH:

BERNARD ROSS, PH.D.

The aim of the major is to provide the student with a general understanding of human society and human culture as these have developed in different parts of the world from prehistoric to modern times. Man's racial and cultural history is traced, and analyses are made of cultural and social institutions of primitive and complex industrial societies. The advanced work is planned to bring together the major contributions in the fields of social and cultural theory. The free elective courses deal with practical problems of social welfare.

REQUIREMENTS IN THE MAJOR SUBJECT: 101, 201a, 203a and 201b or 206a or b, and 301a and b.

ALLIED SUBJECTS: Classical and Near Eastern Archaeology, Economics, Geography, History, Philosophy, Political Science, Psychology, and Statistics.

101. *Man, Culture and Society*: semester I, Miss Goodale; semester II, Miss de Laguna.

First semester: Man's place in nature, the origin and spread

1. On leave of absence for semester I, 1959-1960.

2. Semester I, 1959-1960.

of human races, the development of culture from prehistoric to modern times.

Second semester: Basic cultural and social institutions in primitive and complex societies.

No credit is given unless the work of the whole year is completed.

201a. *Social Institutions*: Mr. Schneider.

Analysis of some major features of the social structure and culture of modern, large-scale societies: class structure, family, economic institutions, urbanism, power. Examples are drawn from several societies, but major emphasis is on the United States. Prerequisite: Sociology and Anthropology 101. (Open, by permission, to majors in allied fields.)

201b. *Social Disorganization*: Mr. Schneider.

Analysis of selected areas of disorganization in American society: problems of urbanism, health, crime, juvenile delinquency, mental disease and defect, etc. Prerequisite: Sociology and Anthropology 201a. (Open, by permission, to majors in allied fields.)

202a. *History and Philosophy of Social Welfare*: Mr. Ross.

American social welfare programs, their heritage and future trends; social work as an institution and a profession.

203a. *Primitive Culture*: Mr. Harper.

Analysis of significant studies of culture in selected areas, in terms of the methods and aims of ethnography. Prerequisite: Sociology and Anthropology 101.

203b. *Primitive Society*: Mr. Harper.

Social structures of preliterate peoples; the functions they perform and the types of sanctions which control their members. Prerequisite: Sociology and Anthropology 101.

[204. *American Archaeology*: Miss de Laguna.]

206a. *Industrial Sociology*: Mr. Schneider.

The social structure of various types of industry, businesses and labor unions. The relations of these organizations to society. Prerequisite: Sociology and Anthropology 201a. (Open, by permission, to majors in allied fields.)

206b. *Race Relations and Minority Groups*: Mr. Schneider.

An examination of the position and problems of several minority groups in American and other societies, relations between minority and majority groups, prejudice and discrimination, proposed solutions to minority problems. Prerequisite: Sociology and Anthropology 201a. (Open, by permission, to majors in allied fields.)

[207b. *Village India*: Mr. Harper.]

301a. *Social Theory*: Mr. Wolfgang.

Prerequisites: Sociology and Anthropology 201a, and 201b, or 206a, or 206b.

301b. *Cultural Theory*: Miss de Laguna.

Analyses of the important classic and modern contributions to sociological and to ethnological theory. Prerequisites: Sociology and Anthropology 101 and 203a.

FINAL EXAMINATION: The final examination for students majoring in Sociology and Anthropology is in three parts:

1. Anthropology
2. Sociology
3. An examination in one of the following: (a) A second field in either Anthropology or Sociology; or (b) An allied field.

HONORS WORK: Honors work is offered to students recommended by the Department, and will consist of independent reading and research, conferences, and the preparation of a written report.

## Spanish

DEAN OF THE COLLEGE: DOROTHY NEPPER MARSHALL, PH.D.

PROFESSOR: FRANCISCO AYALA, *D. en D.*,  
*Chairman*

LECTURER: WILLARD FAHRENKAMP KING, PH.D.

INSTRUCTOR: MIGUEL GONZALEZ-GERTH, M.A.

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PROFESSOR OF PHILOSOPHY: JOSÉ MARIA FERRATER MORA, *Lic. F.L.*

The major in Spanish includes work in both literature and language. It includes a two-year survey of Spanish literature, fol-



lowed by more specialized advanced courses dealing with the literature of special periods, or with various literary forms. One course is devoted to training in written and spoken Spanish. Students are encouraged to supplement their course work by spending the Junior year in Spain or a summer in a Spanish-speaking country, or by living in the Spanish House.

REQUIREMENTS IN THE MAJOR SUBJECT: Spanish 101, 202a and at least two advanced courses. Students who spend the Junior year in Spain may substitute an advanced literature course for Spanish 202a.

ALLIED SUBJECTS: Any other language or literature, Economics, History, History of Art, Music, Philosophy, Political Science, and Sociology and Anthropology.

1. *Elementary Spanish*: Mr. Gonzalez-Gerth, Mrs. King.

Grammar, composition, readings on the Spanish and Spanish-American background.

3. *Intermediate Spanish*: Mr. Gonzalez-Gerth.

Intensive grammar review and exercises in composition and conversation.

101. *Readings in Spanish Literature*: Mrs. Marshall and instructor to be announced.

Important works selected from Spanish literature of various periods. Writing and practice in spoken Spanish are emphasized.

202a. *Spanish Composition*: Mr. Ayala.

[203a. *Introduction to Latin American History*.]

Conducted in English. A general view of the cultural history of Latin America. Students majoring in Spanish, or with a sufficient knowledge of the language, will work with original texts.

[203b. *The Latin American Novel and Essay*.]

A study of the main Latin American essayists and novelists of the nineteenth and twentieth centuries.

302a. *Modern Essay in Spain and Latin America*: Mr. Ayala.

The generation of '98 and contemporary writers: Unamuno, Ortega, Azorin, Maeztu and selected Latin American authors.

302b. *Lyric Poetry*: Mr. Ayala.

Generation of '98 and the modernist poets in Latin America.

[303. *The Spanish Novel of the Nineteenth and Twentieth Centuries*: Mrs. Marshall, Mrs. King.]

304a. *Spanish Prose of the Golden Age*: Mrs. King.  
From *The Celestina* to *The Criticón*.

304b. *Modern Spanish Theatre*: Mrs. King.

Major production of the Spanish theatre from Romanticism to 1936, with special attention to the drama of Galdós, Benavente and García Lorca.

[305a. *Drama of the Golden Age*.]

[305b. *The Age of Cervantes*.]

[306a. *Spanish Literature of the Eighteenth Century*.]

[306b. *Spanish Literature of the Middle Ages*.]

FINAL EXAMINATION: The final examination is in three parts:

1. An oral examination consisting of the explanation and interpretation of a Spanish text in Spanish.
2. A three-hour written examination in Spanish on a period of Spanish literature.
3. A three-hour written examination on the development of a literary genre through Spanish literature.

An examination in an allied subject may be substituted for one of the two written examinations.

HONORS WORK: Honors work is offered to students recommended by the Department. This work consists of independent reading, conferences and a long paper.

## Interdepartmental Courses

The following courses are given by several departments in cooperation. The object is to cut across well-defined areas of knowledge and to show the relationships existing among them.

[202. *Aspects of Eighteenth Century Life and Thought*: Miss Robbins, Miss Northrop, Miss Stapleton.]

203. *The Development of Scientific Thought*: Miss Wyckoff, Miss Lehr, and other members of the Faculty.

The development of scientific ideas is traced against the historical background of other intellectual activities, social changes, and technological inventions. Important scientific concepts and theories are analyzed, and the basic assumptions of scientists of the past are compared with those of the present day. The course is open to students who have had one year of laboratory science in college, and should be of special interest to those majoring in History, Philosophy, Mathematics, or Science.

210b. *The Soviet System*: Mr. Hunter, Haverford College.

An analysis of the structure and functioning of major Soviet economic, political and social institutions. Current arrangements are studied as products of historical development. Present performance and prospects are evaluated. Prerequisites: Economics 101 or Political Science 101a and 102b or History 101. (This course is also listed as Political Science 210.)

[301. *The Theory and Practice of Democracy*: Mr. Wells, Miss Stapleton, Miss Stearns, Mr. Hubbard.]

307b. *The Problem of Power in Contemporary Society*: Mr. Bachrach, Mr. Baratz.

A study of political power, with special reference to current controversies in the United States as to the nature and sources of power and with analysis of the implications for the democratic process. (This course is also listed as Political Science 307b.)

## Physical Education

DIRECTOR:	IRENE A. CLAYTON, M.S.
INSTRUCTORS:	ETHEL M. GRANT
	GLORIA SCHMIDT, M.A.
	JANET YEAGER

Through the offerings in the Physical Education Department, students are given opportunities to participate in varied fields of both individual and team sports, dance and aquatic activities. Class instruction during the first two years enables the student to learn new skills or to improve her techniques. Inter-class, interhall and varsity schedules of games and tournaments offer all students the experience of competition in sports. Creative interest in modern dance is encouraged through class work and extra-curricular programs. The Department cooperates with the Athletic Association in sponsoring Square Dance nights, and in promoting the activities of the Dance Club, the Synchronized Swimming Club, the Outing Club and the Riding Club.

The freshman requirement in Physical Education consists of three periods a week throughout the year; part of the winter term will be given over to the study of fundamental principles of good movement. The sophomore requirement consists of two periods a week throughout the year. All students must complete the freshman and sophomore requirements satisfactorily, and must pass the swimming test administered at the beginning of the year to every new student who is not excused by the College Physician. Students unable to pass this test are expected to register for beginning swimming. All classes are open to election by upperclassmen. Students transferring from other colleges will have their physical education requirement reviewed by the Director of the Department.

Seasonal offerings from which election may be made are:

FALL: archery, beginning swimming, fencing, golf, hockey, modern dance, riding,\* tennis and American Red Cross Senior Life Saving course. WINTER: badminton, basketball, fencing, beginning golf, folk dance, modern dance, skating,\* swimming, volleyball, and American Red Cross Instructor course. SPRING: archery, golf, lacrosse, riding,\* softball, swimming and tennis. SWIMMING TEST: one standing dive, back float 2 minutes, tread water one minute, bobbing twice, and swimming any stroke 20 minutes.

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\* Open only to Sophomores, with permission of the Department.

## Academic Awards

THE scholarships listed on the following pages have been made available to able and deserving students through the generosity of alumnae and friends of the College. Many of them represent the income on endowed funds which in some cases is supplemented by an additional grant, usually taken from expendable gifts from alumnae and parents. The awards made from some scholarship endowments are reported in specific amounts. In the case of other awards where the specific amount is not reported, the stipend is variable according to the needs of the student.

Three outstanding national scholarship programs have recently been established by the General Motors Corporation, the National Merit Scholarship Corporation and the Procter and Gamble Company. The Ford Company has a scholarship program for the children of its employees as do other large corporations. In addition to the generous awards made by these companies there are many others made by foundations and by industrial and professional groups. Some of these are regional in designation. Students are urged to consult their schools and community agencies for information in regard to such opportunities.

Scholarship aid is held each year by twenty-six to twenty-eight per cent of undergraduate students. The value of the scholarships ranges widely, but the average grant is approximately \$900. The Scholarship Committee judges requests for aid on the basis of academic promise and achievement on the one hand, and financial need on the other. Committee decisions take into account letters of recommendation from members of the Faculty and the financial situation of the student as it is presented in application blanks completed by the candidate and her family.

Scholarships are available both to entering students and to those who have completed one or more years of study in the College. Students entering on transfer from other colleges are eligible for scholarships only after the completion of one year of study at Bryn Mawr.

## APPLICATIONS FOR SCHOLARSHIPS TO BE HELD AT ENTRANCE

Application forms for entrance scholarships may be obtained from the Director of Admissions, Taylor Hall, Bryn Mawr College, Bryn Mawr, Pennsylvania. *Applications should be filed by January 31 of the student's senior year in high school.* The form entitled *Parents' Confidential Statements in Support of Applications for Financial Aid* should be returned to the College Scholarship Service, Box 176, Princeton, New Jersey.

Bryn Mawr is participating in the College Scholarship Service of the College Entrance Examination Board. The colleges using the Service join in the belief that scholarships should be awarded to properly qualified students after careful consideration of the financial need of the students and their families. The College Scholarship Service acts as a clearing house for applications, sending to the College the report from parents or guardians. The College itself selects the award winners and decides upon the terms of the awards.

Scholarship applicants who register under the Early Decision Plan will be responsible for obtaining and filing by *October 1* of the senior year both the Bryn Mawr scholarship application and the Parents' Confidential Statement of the College Scholarship Service. Scholarship winners in this group will be notified of awards by December 15.

## UNDERGRADUATE SCHOLARSHIPS

The renewal like the award of scholarships depends on the student's maintaining a good record. Application for the renewal of scholarships must be made annually. The necessary forms may be obtained in the Office of the Dean. Completed forms must be returned to the Dean of the College by March 15.

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The dates in parentheses in the listings on the following pages indicate the year the scholarship was established.

## Scholarships

### SCHOLARSHIPS AWARDED AT ENTRANCE AND TENABLE FOR FOUR YEARS

*Bryn Mawr Alumnae Regional Scholarships* are available to students in all parts of the United States. These scholarships, raised by alumnae, vary in amount but generally cover full tuition. A list of the regional districts and of the Alumnae District Councillors will be found on page 130. The awards are made by local alumnae committees and are announced to the candidates immediately after their notification of admission to the College. Holders of these scholarships who maintain a high standard of academic work and conduct, and who continue to need financial aid after the freshman year, are assured of assistance either from alumnae committees in their districts or from the College. (1922)

*The Florence and Dorothy Child Memorial Scholarship of Bryn Mawr College* was founded by bequest of Florence C. Child of the Class of 1905. The income from this fund of \$115,494 is to be used for the residence fees of one or more students who without such assistance would be unable to live in the halls. Preference is to be given to graduates of the Agnes Irwin School and to members of the Society of Friends. If no suitable applicants are available in these two groups, the scholarship aid will then be assigned by and at the discretion of the proper authorities of Bryn Mawr College to students who could not live in residence without such assistance and who are not holding other scholarships. (1957)

*The Charles E. Ellis Scholarship*, value \$700, tenable for four years, was founded by bequest of the late Charles E. Ellis. It is awarded on the recommendation of the Superintendent of Public Schools of the City of Philadelphia, subject to the approval of the Board of Directors of Bryn Mawr College, to a student educated in the Philadelphia public schools. (1909)

*The Foundation Scholarships*, varying in amount up to full tuition and tenable for four years, are made available by the Trustees of Bryn Mawr College. They may be awarded annually upon conditions, so far as possible, similar to the Trustees' Schol-

arships (see page 113), to members of the Society of Friends who cannot meet the full expenses of tuition and residence. (1894)

*The Priscilla Hunt Scholarship* was given in memory of Priscilla Hunt of the Class of 1950 by her mother and father, Ruth Van Natta Hunt and Leigh L. Hunt. The scholarship, awarded first in 1955-1956 and again in 1959-1960 in the amount of \$1,000 and tenable for four years, will be awarded every four years to a candidate from certain counties in the state of Indiana. (1955)

*The Minnie Murdoch Kendrick Memorial Scholarship*, tenable for four years, was founded by bequest of \$5,000 under the will of George W. Kendrick, Jr., in memory of his wife. It is awarded every four years to a candidate nominated by the Board of Public Education of Philadelphia. The most recent award was in 1959-1960. (1916)

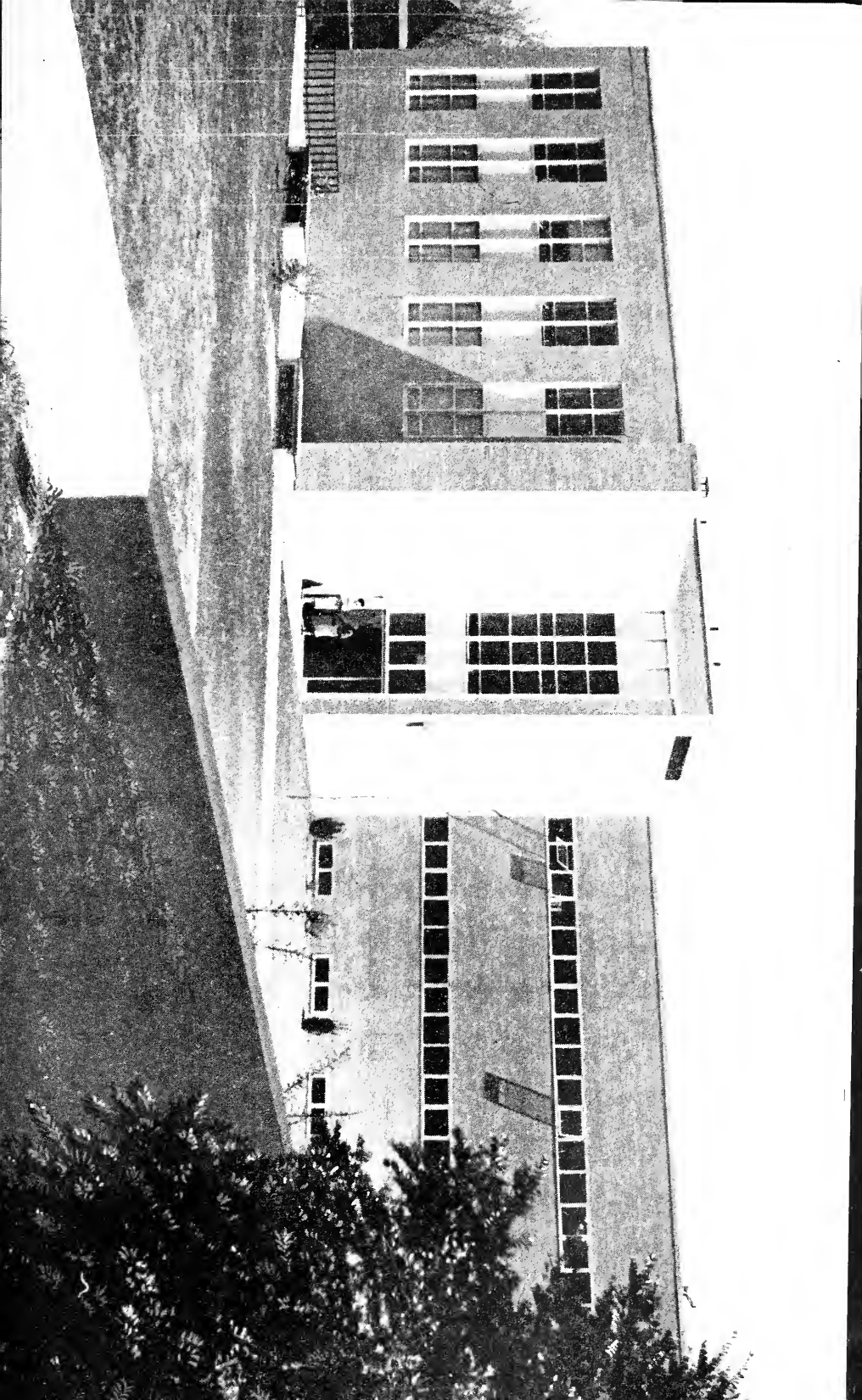
*The Gertrude Howard McCormick Scholarship Fund* was established by gift of \$25,000 by the late Gertrude Howard McCormick. The scholarship, value \$1,000, is awarded to a student of excellent standing, preferably for her freshman year. If she maintains excellent work in college, she may continue to receive scholarship aid through her sophomore, junior and senior years. (1950)

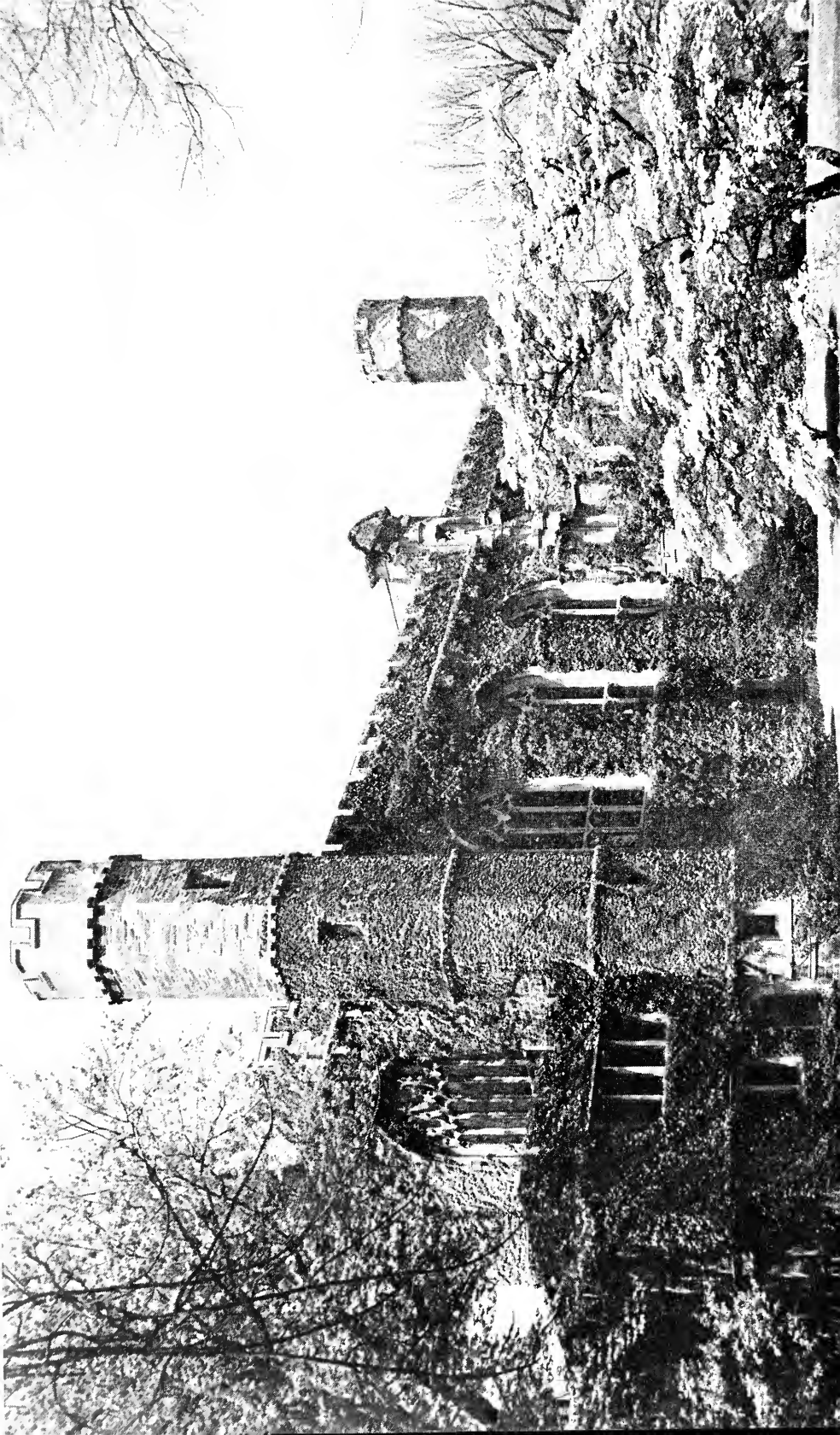
*The Philadelphia Board of Public Education Scholarships* are awarded to graduates of Philadelphia high schools nominated by the Board of Public Education of Philadelphia. (1898)

*The Procter and Gamble Scholarship*, awarded every year, carries free tuition and an allowance for books and supplies and is tenable for four years. This scholarship program was established by the Procter and Gamble Company "in recognition of the responsibility assumed by private women's colleges in graduating capable, well-informed women." The award is made by Bryn Mawr College. (1955)

*The Lidie C. B. Saul Scholarship*, tenable for four years, is given by the Alumnae Association of the Girls' High School and Normal School of Philadelphia. It is awarded every four years to the graduate of the Girls' High School who enters Bryn Mawr College with the highest grade of that year. (1895)







*Seven College Conference Scholarships* are awarded annually by the Seven College Conference (Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar and Wellesley). One scholarship, varying in amount up to full expenses for tuition and residence, is given annually by each of the colleges in each of three areas: the *far west* (Washington, Oregon, California and Idaho), the *central states* (Kansas, Missouri, Nebraska and Colorado), and the *southwest* (Arizona, Louisiana, New Mexico, Oklahoma, Texas and Arkansas). One of these scholarships is supported at Bryn Mawr by a grant made by the *George F. Baker Trust*. (1950) The others are supported by income from the *Fanny R. S. Peabody Fund* of \$177,927. (1943)

*The Frances Marion Simpson Scholarships*, carrying free tuition and tenable for four years, were founded in memory of Frances Simpson Pfahler of the Class of 1906 by Justice Alexander Simpson, Jr., by gifts amounting to \$20,000. One scholarship is awarded each year to a member of the entering freshman class who cannot meet in full the fees of the College. In awarding these scholarships first preference is given to residents of Philadelphia and Montgomery Counties who have been prepared in the public schools of these counties or at home by parents or guardians; thereafter, under the same conditions, to residents of other counties of Pennsylvania, and, in special cases, to candidates from other localities. Holders of these scholarships are expected to repay the sums advanced to them. If they become able during their college course to pay the tuition fees in whole or in part, they are required to do so. (1912)

*The Trustees' Scholarships*, varying in amount up to full tuition, and tenable for four years, are made available by the Trustees of Bryn Mawr College for students prepared in the high schools of Philadelphia and its suburbs. Two of these scholarships are awarded annually to candidates who have received all their preparation for entrance in Philadelphia high schools and are recommended by the Board of Public Education of Philadelphia; two are awarded annually to candidates who have received all their preparation for entrance in public schools in the suburbs of Philadelphia and are awarded by the College after consultation with the principals of the schools presenting candidates. The amount of the award varies according to the need of the applicant. (1895)

## FOR FOREIGN STUDENTS

*The Chinese Scholarship*, awarded every four years and tenable for four years, comes in part from the annual income of a fund now totalling \$30,027 established by a group of alumnae and friends of the College in order to meet all or part of the expenses of a Chinese student during her four undergraduate years at Bryn Mawr College. (1917)

*The Marguerite N. Farley Scholarships* for foreign students were established by bequest of Marguerite N. Farley. The income from a fund of \$331,425 will be used for scholarships for foreign graduate and undergraduate students covering part or all of their expenses for tuition and residence. (1956)

*The Special Trustees' Scholarship* is awarded every four years to a foreign student. It carries free tuition and is tenable for four years. The scholarship for students from foreign countries was first offered by the Trustees in 1940.

*The Undergraduate Scholarship*, raised and awarded by the Undergraduate Association in consultation with the President and the Director of Admissions, is awarded every four years to a foreign student entering Bryn Mawr. The award is variable in amount but covers as a minimum the cost of tuition. The most recent award was in 1959-1960.

*For other four-year scholarships, not in the award of Bryn Mawr College, students should see page 109.*

SCHOLARSHIPS AWARDED AT ENTRANCE  
AND TENABLE FOR THE FRESHMAN YEAR ONLY

*The Bryn Mawr School Scholarship*, instituted by the Board of Managers of the Bryn Mawr School of Baltimore, Maryland, has been offered annually since the College opened in 1885 to the graduate of the Bryn Mawr School who has completed the school course with the greatest distinction and who plans to enter Bryn Mawr College.

*The Alice Day Jackson Scholarship Fund* of \$10,000 was given by the late Percy Jackson in memory of his wife, Alice Day Jackson. (1930)

*The Clara Bertram Little Memorial Scholarship* was founded by Eleanor Little Aldrich, in memory of her mother. The income from a fund now totalling \$10,000 is awarded to a student from New England selected by the President on the basis of merit and financial need. (1947)

*The Louise Hyman Pollak Scholarship* was founded by the Board of Trustees from a bequest of \$5,061 by Louise Hyman Pollak of the Class of 1898. The income from this fund now totalling \$6,666, supplemented by gifts from Julian A. Pollak, is awarded annually to a student from one of the central states, east of the Mississippi River. Preference is given to residents of Cincinnati. (1932)

*The Amy Sussman Steinhart Scholarship*, carrying full tuition, was founded in memory of Amy Sussman Steinhart of the Class of 1902 by her family and friends. The income from gifts now totalling \$11,383 is awarded annually to a student from one of the states on the west coast. (1932)

*The Evelyn and Caroline Warram—Bryn Mawr Scholarship*, carrying free tuition, was given by Mr. and Mrs. James H. Warram. It is to be awarded each year to an entering student from the State of Oklahoma. (1956)

#### SCHOLARSHIPS AWARDED AT THE END OF THE FRESHMAN YEAR AND TENABLE FOR THE THREE SUBSEQUENT YEARS

*The Jeannette Peabody Cannon Memorial Scholarship Fund*, now totalling \$7,405, was established in memory of Jeannette Peabody Cannon, Class of 1919, through the efforts of the New England Alumnae Regional Scholarship Committee, of which she was a member for twenty years. The scholarship is awarded every three years at the termination of the freshman year on the nomination of the Alumnae Scholarship Committee to a promising member of the freshman class residing in New England who needs financial assistance. The scholarship may be held during the remaining three years of her college course provided a high standard is maintained. (1949)

*The Leila Houghteling Memorial Scholarship Fund* in the amount of \$10,000 was founded in memory of Leila Houghteling

of the Class of 1911 by members of her family and a group of her contemporaries. It is awarded every three years on the nomination of the Alumnae Scholarships and Loan Fund Committee to a member of the freshman class in need of financial assistance and is held during the remaining three years of her college course. (1929)

SCHOLARSHIPS AWARDED AT THE END OF THE  
FRESHMAN YEAR AND TENABLE FOR THE  
SOPHOMORE YEAR ONLY

*The Maria Hopper Scholarships*, two in number, were founded by bequest of \$10,000 under the will of Maria Hopper of Philadelphia and are awarded annually. (1901)

*The James E. Rhoads Memorial Sophomore Scholarship* was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958, the Alumnae Association increased the fund to \$25,000, the income from which is awarded annually to a student who has attended Bryn Mawr College for at least one semester, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

SCHOLARSHIPS AWARDED AT THE END OF THE  
SOPHOMORE YEAR AND TENABLE FOR THE  
TWO SUBSEQUENT YEARS

*The Jeanne Crawford Hislop Memorial Scholarship Fund* of \$5,000 was given in memory of Jeanne Crawford Hislop of the Class of 1940 by Mr. and Mrs. John H. Hislop and Mrs. Frederic W. Crawford. This scholarship may be renewed for the senior year. (1939)

*The Serena Hand Savage Memorial Scholarship* was established in memory of Serena Hand Savage of the Class of 1922 by her friends. The income from a fund of \$21,729 is awarded to a member of the junior class who shows great distinction of scholarship and character and who needs financial assistance. This scholarship may be renewed in the senior year. (1951)

SCHOLARSHIPS AWARDED AT THE END OF THE  
SOPHOMORE YEAR AND TENABLE FOR THE  
JUNIOR YEAR ONLY

*The Anna Hallowell Memorial Scholarship* was founded in memory of Anna Hallowell by her family. The income on a fund of \$2,585 is awarded annually to the student in need of aid who has the highest academic record. (1912)

*The James E. Rhoads Memorial Junior Scholarship* was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958, the Alumnae Association increased the fund to \$25,000, the income from which is awarded annually to a student who has attended Bryn Mawr College for at least three semesters, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

*The Mary E. Stevens Scholarship Fund* was given in memory of Mary E. Stevens by former pupils of The Stevens School in Germantown. The income on this fund of \$3,188 is awarded annually. (1897)

SCHOLARSHIPS AWARDED AT THE END OF THE  
JUNIOR YEAR AND TENABLE FOR THE  
SENIOR YEAR ONLY

*The Anna M. Powers Memorial Scholarship* was founded in memory of Anna M. Powers by a gift of \$5,000 from her daughter, the late Mrs. J. Campbell Harris. (1902)

*The Thomas H. Powers Memorial Scholarship* was founded in memory of Thomas H. Powers by bequest under the will of his daughter, the late Mrs. J. Campbell Harris. (1902)

SCHOLARSHIPS TENABLE IN ANY YEAR  
AFTER THE FRESHMAN YEAR

*The Book Shop Scholarships* are awarded annually from the profits of the Bryn Mawr College Book Shop and from the income from the Book Shop Fund, which now amounts to \$15,555. (1947)

*The Jacob Fussell Byrnes and Mary Byrnes Fund* was founded in memory of her father and mother by a bequest of \$51,513 under the will of Esther Fussell Byrnes of the Class of 1891. By vote of the Board of Directors the income is used for annual scholarship for students in need of financial aid. (1948)

*The Susan Shober Carey Award* was founded in memory of Susan Shober Carey by a gift totalling \$3,200 from the Class of 1925 and is awarded annually by the President. (1931)

*The Jacob Orie and Elizabeth S. M. Clarke Memorial Scholarship* was established by bequest of \$5,000 from the estate of Elizabeth Clarke and is awarded annually to a student born in the United States or any of its territories. (1948)

*The Class of 1903 Scholarship Fund* was established by gift of \$12,295 on the occasion of the fiftieth reunion of the Class. The income from this fund is to be awarded annually to a member of the freshman, sophomore or junior class for use in the sophomore, junior or senior years. (1953)

*The Class of 1920 Memorial Scholarship Fund* was founded in memory of classmates by the Class of 1920 from reunion gifts totalling \$2,145. The income from the Fund is to be awarded annually. (1955)

*The Julia Cope Collins Scholarship* was established by bequest of \$10,000 from the estate of Julia Cope Collins. (1959)

*The Alice Perkins Coville Scholarship Fund*, now totalling \$5,000, was established by Agnes Frances Perkins of the Class of 1898 in honor of her sister, Alice Perkins Coville. The income from this scholarship fund is used to aid a deserving student in need of financial assistance. (1948)

*The Regina Katharine Crandall Scholarship* was established by a group of her students as a tribute to Regina Katharine Crandall, Margaret Kingsland Haskell Professor of English Composition from 1918 to 1933. The income from this fund, which now amounts to \$10,225, is awarded on the recommendation of a committee composed of the Dean of the College, a representative of the English Department, and a representative of another department chosen by the Dean, to a sophomore,



junior or senior who in her written English has shown ability and promise and who needs assistance to continue her college work. (1950)

*The E. Merrick Dodd and Winifred H. Dodd Scholarship Fund* of \$2,000 was established by bequest of Dr. and Mrs. Dodd. (1953)

*The Abby Slade Brayton Durfee Scholarship Fund*, which now amounts to \$9,250 was founded in honor of his wife by bequest of Randall Nelson Durfee and increased by Mrs. Durfee and by Randall N. Durfee, Jr. and Mrs. Charles B. Brown of the Class of 1930. Preference in awarding it is given to candidates of English or American descent and to descendants of the Class of 1894. (1924)

*The William Franklin Scholarship Fund* was established by a bequest of \$27,511 from the Estate of Susan B. Franklin of the Class of 1889. The income from this fund is to be used for scholarships for deserving girls, preference being given whenever possible to girls from the Rogers High School, Newport, Rhode Island. (1957)

*The Katharine Hepburn Scholarship*, value \$1,000, given for the year 1959-1960, is awarded in honor of Katharine Hepburn to a student interested in the study of drama and motion picture, and to the cultivation of English diction and of literary appreciation. (1952)

*The Katharine Houghton Hepburn Scholarship* given in memory of Katharine Houghton Hepburn of the Class of 1900 will be awarded for her junior or senior year to a student who has demonstrated both ability in her chosen field and independence of mind and spirit. (1957)

*The George Bates Hopkins Memorial Scholarships* were founded in memory of her father by a gift of \$10,000 from Mrs. Elizabeth Hopkins Johnson. Preference is given to students of Music and, in default of these, to students majoring in History, and thereafter to students in other departments. (1921)

*The Evelyn Hunt Scholarships*, two in number, were founded in memory of Evelyn Hunt by bequest of \$10,000 under the will of Evelyn Ramsey Hunt of the Class of 1898. (1931)

*The Misses Kirk Scholarship Fund*, now amounting to \$1,375, was founded in honor of the Misses Kirk by the Alumnae Association of the Kirk School in Bryn Mawr. (1929)

*The Constance Lewis and Martha Rockwell Moorhouse 1904 Memorial Scholarship Fund*, now amounting to \$17,930, was established by the Class of 1904 in memory of Constance Lewis and Martha Rockwell Moorhouse of the Class of 1904. (1920)

*The Mary Anna Longstreth Memorial Scholarship*, established by a gift of \$5,000 and carrying free tuition, was given in memory of Mary Anna Longstreth by alumnae and children of alumnae of the Mary Anna Longstreth School and by a few of her friends. (1913)

*The Lorenz-Showers Scholarship Fund* of \$3,000 was established by Justina Lorenz Showers of Dayton, Ohio, of the Class of 1907, in honor of her parents, Edmund S. Lorenz and Florence K. Lorenz, and of her husband, John Balmer Showers. (1943)

*The Evelyn Flower Morris Cope and Jacqueline Pascal Morris Evans Scholarship Fund* was established by members of their families in memory of Evelyn Flower Morris of the Class of 1903 and Jacqueline Pascal Morris of the Class of 1908. (1959)

*The Jean Brunn Mungall 1944 Memorial Fund* was established by the Class of 1944. The income is to be used for scholarships. (1955)

*The Mary McLean and Ellen A. Murter Memorial Fund*, now amounting to \$14,320, was founded in memory of her two aunts by bequest of Mary E. Stevens of Germantown, Philadelphia. By vote of the Board of Directors the income is used for an annual scholarship. (1933)

*The Frank L. Neall and Mina W. Neall Scholarship Fund* was established by a legacy of \$25,000 from the Estate of Adelaide W. Neall of the Class of 1906 in memory of her parents. The income is to be used for scholarship purposes at the discretion of the Trustees of the College. (1957)

*The Florence Morse Palmer Scholarship* was founded in memory of Florence Morse Palmer by her daughter, Jean T. Palmer of the Class of 1924, by gifts now totalling \$8,108. (1954)

*The Anna and Ethel Powers Memorial Scholarship* was established by a gift of \$1,000 in memory of Anna Powers of the Class of 1890 by her sister, Mrs. Charles Merrill Hough. The fund was re-established at \$1,200 in memory of both Anna Powers and her sister, Mrs. Hough (Ethel Powers) by Nancy Hough Smith. (1919, 1958)

*The Amelia Richards Scholarship* was founded in memory of Amelia Richards of the Class of 1918 by bequest of \$10,000 under the will of her mother, Mrs. Frank P. Wilson. It is awarded annually by the Trustees on the nomination of the President. (1921)

*The Mary Williams Sherman Memorial Scholarship Fund*, now amounting to \$4,152, was established by bequest of Bertha Williams of Princeton, New Jersey. (1942)

*The Shippen Huidekoper Scholarship Fund* of \$5,000 was established by an anonymous gift. The income is awarded annually on the nomination of the President. (1936)

*The Anna Margaret Sloan and Mary Sloan Scholarships* were founded by bequest of Mary Sloan of Pittsburgh. The income from this fund of \$16,858 is awarded annually to students majoring in Philosophy or Psychology. (1942)

*The Cordelia Clark Sowden Scholarship Fund* was established by a bequest of \$15,000 from the Estate of Helen C. Sowden. The income from this fund is used for scholarships to be awarded by Bryn Mawr College under the rules in effect at the time of the award. (1957)

*The Summerfield Foundation Scholarship* was established by a gift from the Solon E. Summerfield Foundation. The income from this fund, which now totals \$2,000, is to be used to assist able students who need financial help to continue their studies. (1958)

*The Mary Hamilton Swindler Scholarship* was established in honor of Mary Hamilton Swindler, Professor of Classical Archaeology from 1931 to 1949, by a group of friends and former students, by gifts totalling \$6,630. The income from this fund is used for a scholarship for the study of Archaeology at Bryn Mawr College. (1950)

*Bryn Mawr College*

*The Elizabeth Wilson White Memorial Scholarship* was founded in memory of Elizabeth Wilson White by a gift of \$7,500 by Thomas Raeburn White. It is awarded annually by the President. (1923)

*The Mary R. G. Williams Scholarship Fund* was established from the Fund for Promoting College Education for Women established by bequest of Mary R. G. Williams. The income from this fund will be used for emergency grants for students who are paying their own way through college. (1957)

*The Mary Peabody Williamson Scholarship* was founded by bequest of \$1,000 by Mary Peabody Williamson of the Class of 1903. (1939)

*The Lila M. Wright Memorial Scholarship* was founded in memory of Lila M. Wright by gifts totalling \$2,987 from the alumnae of Miss Wright's School of Bryn Mawr. (1934)

*The Georgie W. Yeatman Scholarship* was founded by bequest of \$1,000 under the will of Georgie W. Yeatman of Philadelphia. (1941)

## Prizes

The following scholarships and prizes are in the award of the Faculty and are given solely on the basis of academic merit.

*The Bryn Mawr European Fellowship*, value \$1,000, has been awarded each year since the first class was graduated in 1889. It is given for merit to a member of the graduating class, to be applied toward the expenses of one year's study at some foreign university. The holder of this fellowship receives in addition an *Elizabeth S. Shippen Scholarship for Foreign Study*.

*The Maria L. Eastman Brooke Hall Memorial Scholarship* was founded in memory of Maria L. Eastman, Principal of Brooke Hall School for Girls, Media, Pennsylvania, by gifts totalling \$3,000 from the alumnae and former pupils of the school. It is awarded annually to the member of the junior class with the highest general average and is held during the senior year. Transfer students who enter Bryn Mawr as members of the junior class are not eligible for this award. (1901)

*The Charles S. Hinchman Memorial Scholarship* was founded in memory of the late Charles S. Hinchman of Philadelphia by a gift of \$12,000 made by his family. It is awarded annually to a member of the junior class for work of special excellence in her major subject and is held during the senior year. (1917)

*The Sheelah Kilroy Memorial Scholarships* in English were founded in memory of their daughter Sheelah, by Dr. and Mrs. Philip Kilroy by a gift of \$5,000. These scholarships are awarded annually on the recommendation of the Department of English as follows: to a student for excellence of work in second-year or advanced courses in English, and to the student in the first-year course in English Composition who writes the best essay during the year. (1919)

*The Elizabeth S. Shippen Scholarships* were founded by two bequests of \$5,000 each under the will of Elizabeth S. Shippen of Philadelphia. Three scholarships are awarded annually, one to the member of the senior class who receives the Bryn Mawr European Fellowship, and two to members of the junior class, as follows: 1. *The Shippen Scholarship in Science*, to a student whose major subject is Biology, Chemistry, Geology or Physics;

2. *The Shippen Scholarship in Foreign Languages*, to one whose major subject is French, German, Greek, Italian, Latin, Russian or Spanish. To be eligible for either of these two scholarships a student must have completed at least one semester of the second-year course in her major subject. Neither may be held by the winner of the Charles S. Hinchman Memorial Scholarship. Work in elementary courses will not be considered in awarding the scholarship in foreign languages; 3. *The Shippen Scholarship for Foreign Study* (See European Fellowship, page 123). (1915)

*The Elizabeth Duane Gillespie Fund for Scholarship in American History* was founded by a gift of \$1,500 from the National Society of Colonial Dames of America in the Commonwealth of Pennsylvania in memory of Elizabeth Duane Gillespie. Two prizes are awarded annually on nomination by the Department of History, one to a member of the sophomore or junior class for work of distinction in American History, a second to a student doing advanced work in American History for an essay written in connection with that work. The income from this Fund has been supplemented since 1955 by an annual gift from the Pennsylvania Society of the Colonial Dames. (1903)

*The Helen Taft Manning Essay Prize in History* was established in honor of Helen Taft Manning, in the year of her retirement, by her class—1915. The income on a fund of \$2,600 is to be awarded as the Department of History may determine. (1957)

*The Academy of American Poets Poetry Prize* of \$100 will be awarded each year for five years to the student who submits to the Department of English the best poem or group of poems. The Award, first made in 1957, was given by the Academy of American Poets.

*The Bain-Swiggett Poetry Prize* was established by a gift of \$1,000 from Mr. and Mrs. Glen Levin Swiggett. This prize is to be awarded annually by a committee of the Faculty on the basis of work submitted for the award. The income only is to be used. (1958)

*The Hester Ann Corner Prize* for distinction in literature was established in memory of Hester Ann Corner of the Class of 1942 by gifts totalling \$2,125 from her classmates and friends. The award is made every second year to a junior or senior on the recommendation of a committee composed of the chairmen of the Departments of English and of classical and modern foreign languages. Awarded in 1959. (1950)

*The Katherine Fullerton Gerould Memorial Prize* was founded by a gift of \$1,300 from a group of alumnae, many of whom were students of Mrs. Gerould when she taught at Bryn Mawr from 1901-1910. It is awarded by a special committee to a student who shows evidence of creative ability in the fields of informal essay, short story, longer narrative or verse. (1946)

*The Theresa Helburn Playwriting Awards*, open to all students of the College, are given by Theresa Helburn to encourage playwriting. Original work is required; adaptations, translations and collaborations are not eligible.

*The M. Carey Thomas Essay Prize* is awarded annually to a member of the senior class for distinction in writing. The award is made by the Department of English for either creative or critical writing. It was established in memory of Miss Thomas by her niece, Millicent Carey McIntosh of the Class of 1920. (1943)

*The Jeanne Quistgaard Memorial Prize* was given by the Class of 1938 in memory of their classmate, Jeanne Quistgaard. The income on this fund of \$498 may be awarded every two years to a student in Economics. Awarded in 1959. (1938)

*The Esther Walker Award* was founded by the bequest of \$1,000 from William John Walker in memory of his sister, Esther Walker, of the Class of 1910. It may be given annually to a member of the senior class who in the judgment of the Faculty shall have displayed the greatest proficiency in the study of living conditions of Northern Negroes. (1940)

## Scholarships for Medical Study

The following scholarships may be awarded to seniors intending to study medicine, after their acceptance by a medical school, or to graduates of Bryn Mawr intending or continuing to pursue medical education. Applications for the scholarships should be made to the Dean of the College before April 15 preceding the academic year in which the scholarship is to be held. Applications for renewal of scholarships must be accompanied by letters of recommendation from instructors in the medical school.

*The Linda B. Lange Fund* was founded by bequest of \$30,000 under the will of Linda B. Lange of the Class of 1903. The income from this fund will provide the Anna Howard Shaw Scholarship in Medicine and Public Health, awarded on recommendation of the President and Faculty to a member of the graduating class or a graduate of the College for the pursuit, during an uninterrupted succession of years, of studies leading to the degrees of M.D. and Doctor of Public Health. The award may be continued until the degrees are obtained. (1948)

*The Hannah E. Longshore Memorial Medical Scholarship* was founded by Mrs. Rudolph Blankenburg in memory of her mother by a gift of \$10,000. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school and may be renewed for each year of medical study. (1921)

*The Jane V. Myers Memorial Medical Scholarship Fund* of \$10,000 was established by Mrs. Rudolph Blankenburg in memory of her aunt. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school. It may be renewed for each year of medical study. (1921)

*The Harriet Judd Sartain Memorial Scholarship Fund* was founded by bequest of \$21,013 under the will of Paul J. Sartain. The income from this fund is to establish a scholarship which is awarded to a member of the graduating class who in the judgment of the Faculty needs and is deserving of assistance for the study of medicine. This scholarship may be continued for the duration of her medical course. (1948)



# Loan Funds and Student Employment

*The Students' Loan Fund of the Alumnae Association of Bryn Mawr College* was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

The committee in administering this money follows a definite policy which tries to serve the best interests of the students concerned. Loans may be used for any purpose approved by the committee, but not more than \$500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed \$1,500. Students who wish loans may obtain from the Dean or the Alumnae Office, on the second floor of the Deanery, the necessary blanks, which must be accompanied by a letter of recommendation from the Dean. As a rule, money is not loaned to freshmen or to students in their first semester of graduate work. Applications, except in cases of emergency, must be filed before September 10. Approximately a month is required for action on applications.

The terms under which money is loaned are as liberal as is consistent with business-like principles. While the student is in college no interest is charged, but she may reduce the principal of the loan if she so desires; after the student leaves college, the interest rate is two per cent. The entire principal must be repaid within five years from the time the student leaves college at the rate of twenty per cent each year.

Contributions to the Loan Fund may be sent to the Chairman of Scholarships and Loan Fund, Bryn Mawr College Alumnae Association, Bryn Mawr, Pennsylvania.

*The Mary Hill Swope Loan Fund* was established June 1, 1945, by a gift of the late Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:

To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

1. The following order of preference shall be followed in awarding such loans: a. to students coming from New Jersey, b. to students coming from Missouri, c. to students coming from any other location who have had not less than one year residence at the College.

2. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn Mawr College, or by a committee appointed by her from time to time.

3. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.

4. These loans shall be used primarily to enable the exceptional student to continue her studies, which otherwise would be prevented through lack of means.

5. In the awarding of the loans, the recipient should understand that if in after years she is in a position to do so, she is to repay to the income account of the Loan Fund the amount so loaned to her, with or without interest. It is to be understood that this is entirely a moral obligation upon the recipient.

## STUDENT EMPLOYMENT

Students may obtain employment such as clerical and library work, typing, reading aloud, child care and waiting on table through the Bureau of Recommendations, Taylor Hall. In conducting this Bureau, the College offers an employment service for permanent, temporary and part-time positions to its alumnae and former students as well as to those in college. It also offers to students a vocational service, which includes vocational tests and assistance in choosing a vocation. Students registering with the Bureau will be informed of openings in the kind of work they have requested.

The Bureau also acts as a clearing house for letters of recommendation for its registrants; these letters will be sent upon request, to prospective employers and other agencies for summer work for undergraduates or for full or part-time employment for alumnae and former students.

*Students of foreign citizenship wishing employment should consult the Adviser to Foreign Students whose office is in the Library.*

# Alumnae Representatives

*All Alumnae officers and representatives will be glad to give general information about the College.*

*Specific questions in regard to admissions or scholarships should be directed to the Office of Admissions, Bryn Mawr College, Bryn Mawr, Penna.*

## Officers of the Alumnae Association

*President*, Mrs. E. Baldwin Smith, 253 Prospect Avenue, Princeton, N. J.

*First Vice-President*, Mrs. Charles B. Brown, 11 North Drive, Plandome, N. Y.

*Second Vice-President*, Mrs. Jacob J. Kohlhas, 46 Tunbridge Road, Haverford, Pa.

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# Academic Schedule

1959-1960

## FIRST SEMESTER

1959

- September 24.* Registration of entering undergraduate students  
Deferred, condition and auditors' examinations begin  
Registration period for graduate students begins
- September 26.* Deferred, condition and auditors' examinations end
- September 27.* Registration of returning undergraduate students with Comptroller's Office
- September 28.* Work of the 75th academic year begins  
Convocation at 4:30 P.M.
- September 30.* Hygiene exemption examination for Freshmen at 7:30 P.M.
- October 1.* Registration period for graduate students ends
- October 17.* German examinations for undergraduates, M.A. and Ph.D. candidates
- October 24.* Russian examinations for undergraduates, M.A. and Ph.D. candidates  
Greek and Latin examinations for undergraduates
- October 31.* French examinations for undergraduates, M.A. and Ph.D. candidates
- November 7.* Spanish and Italian examinations for undergraduates, M.A. and Ph.D. candidates  
Statistics examinations for M.A. candidates
- November 18.* Hygiene examination at 7:30 P.M.

1960

- January 9.* German, Greek, Latin and Russian examinations for Seniors conditioned  
German and Russian examination for M.A. and Ph.D. candidates

- January* 15. Last day of lectures  
*January* 16. French examinations for Seniors conditioned, M.A. and Ph.D. candidates  
*January* 18. Collegiate examinations begin  
*January* 23. Spanish and Italian examinations for Seniors conditioned, M.A. and Ph.D. candidates  
*January* 27. Registration period for graduate students begins  
*January* 28. Collegiate examinations end

## SECOND SEMESTER

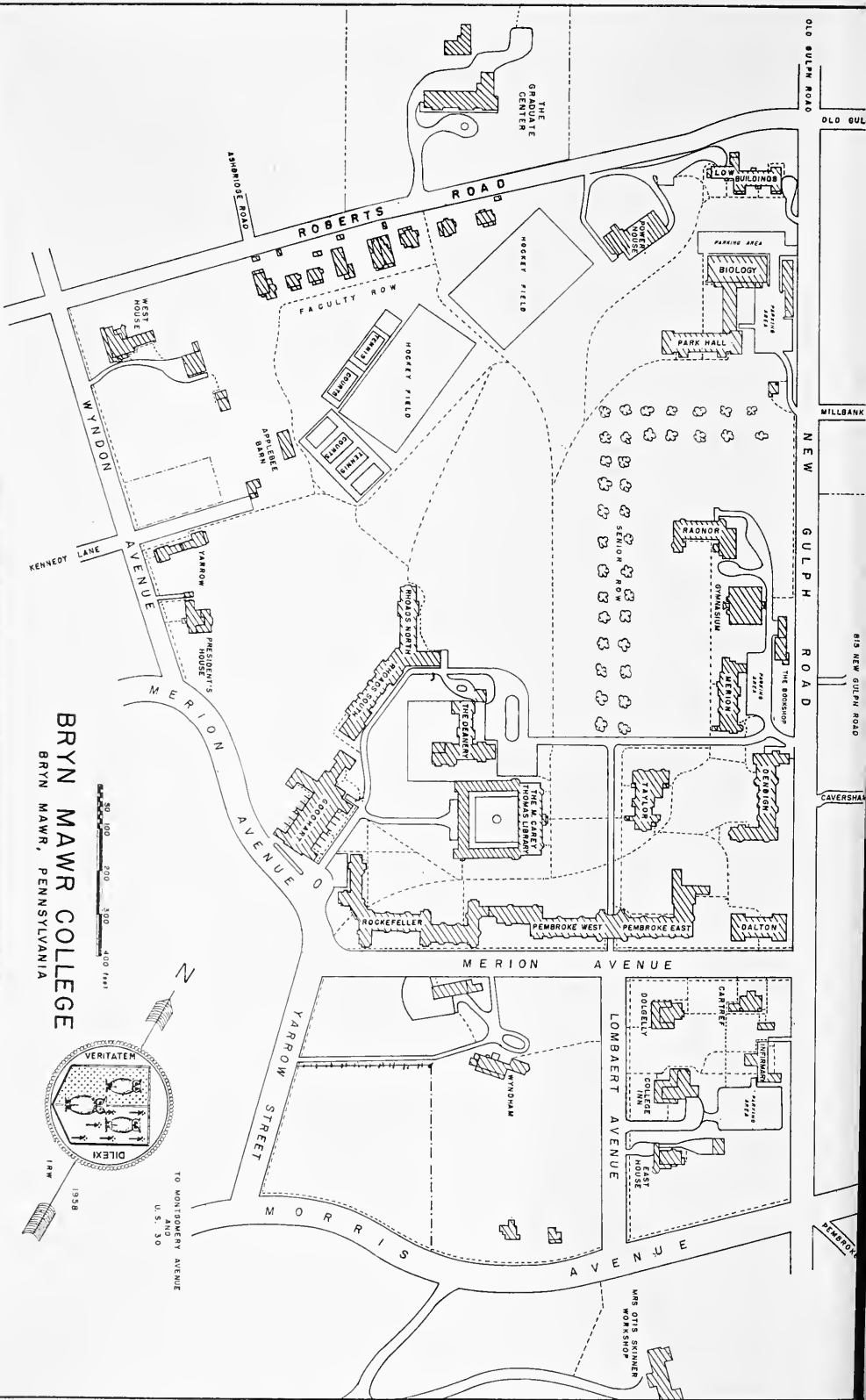
- February* 1. Work of the second semester begins at 9 A.M.  
*February* 3. Registration period for graduate students ends  
*April* 5. Deferred examinations begin  
*April* 9. German examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1961  
Deferred examinations end  
*April* 11. Ph.D. dissertations in all fields except experimental science and mathematics must be submitted to the Graduate School office  
*April* 16. Russian examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1961  
*April* 23. French examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1961  
*April* 30. Statistics examinations for M.A. candidates for 1961  
*May* 2. Ph.D. dissertations in experimental science and mathematics must be submitted to the Graduate School office  
*May* 7. Spanish and Italian examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1961  
*May* 13. Last day of lectures  
*May* 16. Collegiate examinations begin  
*May* 27. Collegiate examinations end  
*May* 31. Conferring of degrees and close of the 75th academic year

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BRYN MAWR

THE GRADUATE  
DEPARTMENT OF  
SOCIAL WORK AND  
SOCIAL RESEARCH  
OF BRYN MAWR COLLEGE

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Bulletin of the  
Carola Woerishoeffler  
Graduate Department of  
SOCIAL WORK  
and  
SOCIAL RESEARCH  
of Bryn Mawr College  
1959 - 1961

815 New Gulph Road  
BRYN MAWR, PENNSYLVANIA

# College Calendar

1959 - 1960

## FIRST SEMESTER

1959

- |           |     |  |
|-----------|-----|--|
| September | 23. | Graduate Center open to resident graduate students                                       |
|           | 24. | Final date to file application for admission   |
|           |     | Registration period for graduate students begins   |
|           | 28. | Work of the 75th academic year begins  |
| October   | 1.  | Registration period for graduate students ends   |
| November  | 25. | Thanksgiving holiday begins after last class and ends<br>at 9 A.M. the following Monday. |
| December  | 17. | Christmas vacation begins at 12:45 P.M.  |

1960

- |         |     |  |
|---------|-----|--|
| January | 5.  | Christmas vacation ends at 9 A.M.                |
|         | 15. | Last day of lectures                             |
|         | 18. | Collegiate examinations begin                    |
|         | 27. | Registration period for graduate students begins |
|         | 28. | Collegiate examinations end                      |

## SECOND SEMESTER

- |          |     |  |
|----------|-----|--|
| February | 1.  | Work of the second semester begins                           |
|          | 3.  | Registration period for graduate students ends               |
| March    | 24. | Spring vacation begins after last class                      |
| April    | 5.  | Spring vacation ends at 9 A.M.                               |
| May      | 13. | Last day of lectures   |
|          | 16. | Collegiate examinations begin                                |
|          | 27. | Collegiate examinations end                                  |
|          | 31. | Conferring of degrees and close of the 75th academic<br>year |

The calendar of dates to be observed by students in Social Work varies in some instances from the College Calendar. Students will be informed of these dates early in September. Among the differences are the more limited vacation periods at Christmas and Easter for those students in field instruction. There is no break in field instruction for the examination period in January - February.



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<i>Photographs:</i> Entrance to 815 New Gulph Road; Lecture Room; 815 New Gulph Road; Air View of Bryn Mawr College Campus.	

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10. Mrs. Clarence M. Hardenbergh; 11. Mrs. Francis J. Stokes; 12. Mrs. Ernest C.  
Savage; 13. Mrs. E. Baldwin Smith.

## College Administration

*President:*

KATHARINE ELIZABETH MCBRIDE, PH.D., LL.D., L.H.D., SC.D.

Office: Taylor Hall.

*Dean of the Graduate School:* ELEANOR A. BLISS, SC.D.

Office: The Library.

*Dean of the College:* DOROTHY NEPPER MARSHALL, PH.D.

Office: Taylor Hall.

*Director of the Graduate Department of Social Work and Social Research:* KATHERINE D. K. LOWER, PH.D.

Office: 815 New Gulph Road.

*College Physician:* ELIZABETH HUMESTON, M.D.

Office: The Infirmary.

*Director of Halls and Head Warden:*

CHARLOTTE BRANDON HOWE, M.A.

Office: Rockefeller Hall.

*Librarian:* JANET MARGARET AGNEW, B.L.S., M.A.

Office: The Library.

Correspondence regarding admission to the Graduate Department of Social Work and Social Research should be addressed to the Director of the Department, Bryn Mawr College, Bryn Mawr, Pennsylvania.

# Instructional Staff

## CAROLA WOERISHOFFER GRADUATE DEPARTMENT of

### Social Work and Social Research

KATHERINE D. K. LOWER, PH.D., *Professor of Social Work and Social Research and Director of the Department*

HERTHA KRAUS, PH.D., *Carola Woerishoffer Associate Professor of Social Work and Social Research*

BERNARD ROSS, PH.D., *Associate Professor of Social Work and Social Research*

EUGENE V. SCHNEIDER, PH.D., *Associate Professor of Sociology*

MARY MARGARET ZENDER, M.A., M.S.S., *Associate Professor of Social Work*

EDMUND V. MECH, PH.D., *Associate Professor-Elect of Social Work and Social Research*

GEORGE K. LEVINGER, PH.D., *Assistant Professor of Social Work and Social Research*

RUTH OLIVER STALLFORT, M.S., *Lecturer in Psychiatric Social Work*

HOWARD STANTON, A.B., *Lecturer in Social Research*

JEAN HARING, M.S.W., *Lecturer in Social Work*

A. FERDINAND BONAN, M.D., *Special Lecturer in Psychiatric Information*

WALTER C. KLINGENSMITH, M.D., *Special Lecturer in Medical Information*

ARTHUR NOYES, M.D., *Special Lecturer in Psychiatric Information*

ROBERT C. PRALL, M.D., *Special Lecturer in Psychiatric Information*

HERMAN SOMERS, PH.D., *Special Lecturer in Social Administration*

CALVIN F. SETTLAGER, M.D., *Special Lecturer in Psychiatric Information*

JEANNE L. WERTZ, PH.D. *Special Lecturer in Social Research*

ELIZABETH GENTILE, A.B., *Research Associate*

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RACHEL DUNAWAY COX, PH.D., *Professor of Education and Psychology*

## Introduction

THE CAROLA WOERISHOFFER GRADUATE DEPARTMENT of Social Work and Social Research offers professional education for practice in social work and for research. In addition to the basic two-year program leading to the degree of Master of Social Service, the advanced program leads to the degree of Doctor of Philosophy. In general, the program of the Department is intended for full-time study, but a few courses are open on a part-time basis to holders of a Master's degree in social work or its equivalent.

The curriculum of the Department is based upon the premise that preparation for social work requires a basic core of knowledge as well as skill in the application of this knowledge. A coordinated program of concurrent study and field work is therefore provided in the Master's degree program. The Ph.D. program is planned to broaden the student's knowledge of social welfare in general, and, through intensive research, to deepen his knowledge in one field in particular. A special course of study is given for students whose career goal is research.

### HISTORY OF THE DEPARTMENT

The Department was opened in the fall of 1915 in memory of Carola Woerishoffer, a graduate of Bryn Mawr College, who had devoted her brief life to improving social and working conditions and who, by her bequest to the College, made possible the introduction of new teaching and research in social welfare. The Department was called the Carola Woerishoffer Graduate Department of Social Economy and Social Research. In 1957 the name was changed to the Graduate Department of Social Work and Social Research.

Under the first Director, Dr. Susan M. Kingsbury, four fields of study were initially offered — Social Casework, Community Organization, Industrial Relations, and Social and Industrial Investigation.

As the curriculum became more specifically focussed on education for social work, certain fields of study, including Labor Economics, Sociology and Anthropology, were transferred to other Departments of the College.

The program leading to the Ph.D. degree was developed with the founding of the Department in 1915. In response to the growing recognition of social work as a profession, the degree of Master of Social Service was substituted in 1947 for the Professional Certificate which had been granted up to this time to two-year students.

The Department was a charter member of the American Association of Schools of Social Work and is a constituent member of the Council on Social Work Education and, as such, is an accredited graduate school of social work. Since 1944, the Department has been approved to offer a concentration in medical social work and, since 1954, in psychiatric social work.

In 1958 a grant from the Dolfinger-McMahon Foundation established a research center whose purpose is to bring the techniques of the research scientist to the study of basic problems in social work. The research center, to be developed over a five-year period, was opened in September, 1958, when the Department moved into its present headquarters at 815 New Gulph Road. The property of six acres opposite Merion Gate, formerly the Vaux Estate, was purchased by the College in July, 1958, and the main building, an old Pennsylvania fieldstone farmhouse, remodelled during the summer for academic needs. Located there are the Department's classrooms, offices and library.

In 1939, about the time other Departments in the Bryn Mawr Graduate School were opened to men, men were first admitted as students in the Department of Social Work and Social Research.

## Admission

THE GRADUATE DEPARTMENT OF SOCIAL WORK AND SOCIAL RESEARCH at Bryn Mawr College is open to qualified graduates in liberal arts from colleges or universities of acknowledged standing. Application for admission, to be made to the Director of the Department, should be accompanied by a copy of the student's full academic record. Letters from the Dean and from two or more professors of the applicant's undergraduate college<sup>1</sup> will be requested by the Department. A personal interview is arranged with a member of the faculty of the Department or with an appropriate person near the residence of an applicant living a considerable distance from Bryn Mawr. The Department may, at its discretion, require students whose preparation is insufficient to pursue certain introductory courses before being enrolled in a graduate course. Admission to the Graduate School does not automatically qualify a student to become a candidate for an advanced degree. Students whose courses of study meet the prerequisites may, on application to the Graduate Committee, be enrolled as candidates for the degrees of Master of Social Service or Doctor of Philosophy.

Men as well as women are admitted to the Graduate School and are accepted as candidates for the degrees of Master of Social Service and Doctor of Philosophy.

Within ten days after official notice of admission to the Department of Social Work and Social Research, the Enrollment or Admission Fee of \$20 is to be paid to the Comptroller of Bryn Mawr College. The amount will be applied against the first semester tuition when the student reports for registration. It will not be refunded if the student withdraws after July 1st.

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1. Graduate Record Examination. The Bryn Mawr Graduate School recognizes as contributory evidence of the qualifications of a student for admission a record of attainment in the Graduate Record Examination as prepared and administered by the Educational Testing Service. The examination is a convenient method by which a student may supplement transcript records. Applicants for admission to the Graduate School who wish to take the examination should apply directly to the Graduate Record Examination, P.O. Box 592, Princeton, N. J., where full information may be secured and arrangements for taking the test may be made.

## TRANSFER CREDIT

A maximum of three and one-half units of graduate credit from an institution accredited by the Council on Social Work Education may be transferred and credited towards the M.S.S. degree upon recommendation of the Director of the Department. No transfer credit will be given until after the candidate has completed satisfactorily a semester at Bryn Mawr. All candidates for the degree of M.S.S. must spend at least one full year at Bryn Mawr.

For the Ph.D. degree, candidates must be in residence in the Graduate School at Bryn Mawr at least two years (or one year for Bryn Mawr graduates). Part of the work for the Ph.D. may be done at other institutions.

## RECIPROCITY WITH THE UNIVERSITY OF PENNSYLVANIA

Courses at the University of Pennsylvania are available to graduate students at Bryn Mawr College. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the University is limited to the equivalent of one unit per year. Under the Reciprocal Plan the procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr. The University charges a library fee of \$5.00 and a fee for late registration.



## Program and Degrees

BRYN MAWR COLLEGE awards the degrees of Master of Social Service and Doctor of Philosophy in the Department of Social Work and Social Research.

### MASTER OF SOCIAL SERVICE

The program for the professional degree of M.S.S. is designed to prepare graduates for Social Casework, Social Group Work, Community Organization and Research. Two academic years of full-time study are required. The degree represents the completion of a co-ordinated program of courses and field instruction. In the program in social casework, provision is made for concentration in the following specific fields: Child Welfare, Family Welfare, Medical and Psychiatric Social Work.

*Prerequisites.* The prerequisite for the M.S.S. degree is an A.B. degree or its equivalent from an American college of recognized standing, or a degree or certificate of the same standard from a foreign university. An undergraduate major in one of the social sciences is usually required, although in exceptional cases this requirement is waived. There are no language requirements for the M.S.S. degree.

### PROGRAM OF WORK

The basic first-year program is similar for all students except that the student selects either casework or group work as his principle course in social work methods. The first-year courses are:

- Introduction to the Social Services
- Normal Growth and Behavior
- Pathology in Growth and Behavior
- Community Organization I
- Social Research I
- Social Group Work I
- Social Casework I
- Social Casework II or Social Group Work II
- Field Instruction throughout the two semesters in either Social Casework or Social Group Work

The courses in the second year are in part determined by the field of concentration of the student, that is, social casework, community organization or social research. The courses required of all students include:

- The Public Social Services
- Social Issues and Social Policy
- Thesis Seminar

Other second-year courses will be selected from the following:

- Patterns of Behavior
- Social Administration
- Social Foundations of Behavior (Elective)
- Community Organization II and III
- Social Research II and III
- Social Casework III and IV
- Field Instruction during each semester in Community Organization, Research or Social Casework

### REQUIREMENTS FOR DEGREE

Candidates for the M.S.S. degree must have completed a minimum of six units, including designated field work; they must prepare a Master's thesis and pass a Final Examination which tests their ability to place their special fields in the general background of social work.

### DOCTOR OF PHILOSOPHY

The program leading to the Ph.D. degree is designed primarily for social workers who wish to prepare for research, teaching and administration in the broad field of social welfare. The curriculum for the Ph.D. degree includes work in the three following areas of study:

- Social Welfare
- The Social Sciences
- Research Methods

The specific program of study is planned to meet the needs of the individual student, including course work in the Department of Social Work and Social Research and in other Departments of the Graduate School, which would usually be Psychology, Sociology and Anthropology, Economics, Education and Child Development, or Political Science. The major field will be selected from the fields of social welfare or research. The allied field or fields may be selected from social welfare or from the social sciences.

Recognizing the growing need for research in social work, the Department is offering a sequence of courses in the doctoral program designed especially for students primarily interested in research. As a part of this sequence a practicum in research is planned as a unit of the newly established Research Center. Students will thus be given an opportunity to participate in various phases of research under the direction of members of the faculty who are engaged in the research program of the Research Center. The program of the center will also provide opportunities for doctoral dissertations, depending, of course, upon the interest of the student and the particular studies in progress.

### PREREQUISITES

In general applicants for the Ph.D. are expected to have a Master's degree or its equivalent in social work. Experience in social work practice is desirable, but is not required of students preparing for research.

The general requirements for the Ph.D. degree are:

1. An undergraduate preparation in major and allied fields which is satisfactory to the Department and to the Graduate Committee.
2. A course of study requiring a minimum, which will usually be exceeded, of three full years of graduate work in major and allied fields; two of these years (or for graduates from Bryn Mawr College, one) must be spent in the Graduate School of Bryn Mawr College. Candidates are strongly advised to complete at least seven units of graduate work including five graduate courses. There are, however, no formal course requirements for students who have been accepted as candidates for the degree.
3. The acceptance of the student as a candidate by the Director of his or her work, by the Department and by the Graduate Committee.
4. A reading knowledge of French or German, tested by a written examination in the translation of texts in the field of the major subject.
5. A working knowledge of statistics. The specific statistics requirement may be met either by passing a written examination or by taking courses in statistics.

6. A satisfactory Preliminary Examination in the candidate's major and allied fields. This examination is intended to test the candidate's general knowledge of the fields rather than familiarity with particular courses.

7. The preparation of a dissertation judged to be a contribution worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject. It must contain new material, results or interpretations.

8. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

9. The publication of the dissertation in whole or in part in accordance with the general regulations of the Graduate School.

## Courses of Study

EVERY GRADUATE STUDENT must register for courses at the office of the Dean of the Graduate School within two weeks after entering the College. Permission to make any change in registration must be received from the Dean of the Graduate School.

Only courses given in the Department of Social Work and Social Research are described in this Bulletin. Description of courses in the Social Sciences may be found in the Graduate School Calendar.

### PROGRAM FOR THE MASTER OF SOCIAL SERVICE

#### The Social Services

*Introduction to the Social Services* (first semester) : Miss Kraus.

The developmental trends and present framework of welfare service organization to meet basic human needs. The scope and interrelationship of private and public welfare in the several major areas. Emphasis is placed on the philosophy underlying the social services today.

*Public Social Services* (first semester) : Miss Kraus.

Background and current provisions for social security, including income maintenance and other benefits and services in the areas of family and child welfare, health and housing. Trends and major issues.

*Social Issues and Social Policy* (second semester) : Miss Kraus and  
Visiting Lecturers.

Presentation of material from selected fields and consideration of its implications for social policy. Among the fields considered will be mental health, public health, law, housing and income maintenance.

## Human Growth and Behavior

*Normal Growth and Behavior* (first semester): Miss Zender and  
Special Lecturers.

The normal development of the individual as an integrated, functioning organism is presented by means of pertinent material from the fields of medicine, psychiatry, psychology and cultural anthropology. The emphasis is on the processes of adjustment throughout the stages of growth and the development of mechanisms for meeting physical and social stress.

*Pathology in Growth and Behavior* (second semester): Miss Zender  
and Special  
Lecturers.

This course deals with the abnormal conditions of physical and mental functioning, including physical illness with its associated social problems, and psychopathology in neuroses, character disorders and psychoses. Emphasis is placed on the social implications for treatment and prevention. A series of clinical demonstrations of patients at nearby general and psychiatric hospitals is given.

*Patterns of Behavior* (first semester): Dr. Bonan.

This course is designed to increase knowledge and understanding of dynamics of behavior. Psychoanalytic principles of diagnosis and treatment as they relate to casework practice are stressed.

Prerequisites: *Normal Growth and Behavior*, and *Pathology in Growth and Behavior*.

## Social Work Practice

*Social Casework I* (first semester): Miss Zender and Miss Haring.

This is a *methods* course based on the generic processes in social work as applied to casework. Basic principles and concepts used as the *why* and *what* guides to action. Emphasis is on the casework relationship and on study, diagnosis, and treatment. The methods are developed through class discussions of case material presented by the instructor, and by students from their own field experiences.

*Social Casework II* (second semester) : Miss Zender and Miss Haring.  
Continuation and expansion of Social Casework I.

*Social Casework III and IV* (first and second semesters) : Mrs. Stallfort.

Advanced casework courses building on the basic study, diagnosis and treatment principles of the two preceding courses. Special emphasis on diagnosis, including concepts of family diagnosis, and on appropriate treatment methods.

*Social Group Work I* (first semester) : Mr. Ross.

Introduction to principles and practice of social group work as a basic social work process. The dynamics of group formation, structure and function; the small group as a medium for diagnosing and affecting personal behavior and influencing inter-personal relations. Emphasis on professional understanding and performance in relation to the group as a unit, individuals comprising the group, and the development and extension of the group's social purpose.

*Social Group Work II* (second semester) : Mr. Ross.

Analysis of social group work theory and practice. Program planning and evaluation; consideration of differential factors of selected types of groups. Continued emphasis on professional performance related to a variety of settings and situations, and of organization structures and auspices, where social group work services are provided.

*Community Organization I* (second semester) : Miss Kraus.

Introductory study of the process by which people of communities, as individual citizens or as representatives of groups, join together to determine social welfare needs, plan ways of meeting them and mobilize the necessary resources. Contributions of the professional worker to this process.

*Community Organization II and III* (first and second semesters) :

Mr. Ross.

Critical analysis of variables in functions and roles associated with professional practice in selected settings, voluntary and public, and at defined community levels such as the neighborhood, city, metropolitan area, state. Consideration of the social intergroup work, educational and promotional processes, and the administrative process at

the inter-agency level. Emphasis on content related to field placements of students enrolled.

#### *Field Instruction I*

Application of basic social work principles and concepts in the field setting. Field instructors carry responsibility for facilitating the student's learning and integration of the total curriculum. Taken collaterally with Casework I and II or Group Work I and II. Requirement: two days per week, first semester; three days per week, second semester. Minimum requirement 450 hours.

#### *Field Instruction II*

Taken collaterally with Casework III and IV, Community Organization II and III or Social Research II and III. Requirement: three days per week, first and second semesters; 600 hours.

### Social Research

*Social Research I* (second semester) : Mr. Levinger.

Introduction to research methodology. The course will examine principles of scientific method, the planning and the design of research studies. Attention is given to the formulation of researchable problems and the selection of appropriate methods, with reference to social work. Detailed analysis of particular studies.

*Social Research II and III* (first and second semesters) : Mrs. Lower,  
Mr. Levinger and  
Mr. Stanton.

Examination of selected studies in social work and related fields with emphasis on different methodological approaches pertinent to research in social work. Collateral Field instruction required.<sup>1</sup>

*Thesis Seminar* (first and second semesters) : Mr. Levinger and Mrs. Wertz.

A Master's thesis is required of all candidates for the M.S.S. degree. The thesis may be an individual or a group project; it usually requires the collection, analysis and presentation of primary data. Work on group projects is coordinated in a thesis seminar which meets as needed. Individual supervision is provided for those working on a project alone. No credit is given for the thesis.

<sup>1</sup> See Field Instruction II.



## PROGRAM FOR THE DOCTOR OF PHILOSOPHY

*Comparative Social Welfare* (alternate years) : Miss Kraus.

A study of social welfare programs of selected countries, specifically of their legislative base, structure and major services in the areas of economic security, health, housing, child welfare, recreation, within the framework of different and changing national objectives.

*History of Social Welfare*: Miss Kraus.

Principles and practices of the more important earlier methods of assisting the poor, the physically, mentally and socially handicapped. Impact of ideological and economic changes on the development of community facilities and services, both here and abroad.

*International Aspects of Social Welfare* (alternate years) : Miss Kraus.

History, emergent principles and processes of international cooperation for social welfare in different settings. Examination of cultural, economic and political factors affecting emergency services, migration and exchange programs, advisory services and social and technical development.

*Research Seminar I* (first semester) : Mr. Stanton.

Review of scientific method and principles of measurement. Intensive examination of particular research methods, such as sampling, questionnaire construction, interviewing, coding.

*Research Seminar II* (second semester): Mr. Mech, Mr. Levinger,  
Mrs. Lower.

Critical evaluation of selected research studies in social work and related fields. Emphasis on the formulation of research aims and designs. Discussion of methodological problems.

*Research Seminar III* (first semester) : Mr. Mech.

Experience in the design of studies. Students will plan one or more studies with a view to developing a design for the doctoral dissertation.

*Research Practicum*

During the first year, a minimum of ten hours a week is required of doctoral-study students preparing for research in which students participate in an ongoing research study, being conducted by persons affiliated with this Department. The aim is to help students gain first-hand experience in the practice of research. Project directors will plan periodic sessions with these students.

*Social Administration:* Mr. Somers.

A seminar concerned with problems of organization, management and human relations in administration with special reference to the relation of administration to policy formulation and the functions on the decision-making process. The approach is analytical rather than descriptive or technical. Discussions and readings are based primarily on case studies drawn from various fields of administration. Participants will each prepare administrative case studies.

*Social Foundations of Behavior:* Mr. Levinger.

Discussion of behavior with reference to informal groups, formal organizations and stratified societies. Situations confronting the social worker will be examined in terms of concepts from social psychology and sociology. (Open selectively to master's students.)

*Social Welfare Planning* (alternate years) : Miss Kraus.

An intensive study of selected areas of resource development under the impact of population trends, scientific progress and changing goals.

*Statistics I:* Mr. Stanton.

Principles of statistical inference as related to social research. Topics include descriptive statistics, the laws of probability and the principles of testing hypotheses.

*Statistics II:* Mr. Stanton.

A continuation of the first semester with emphasis on the practical application of statistical tests in social research.

*Supervised Units:*

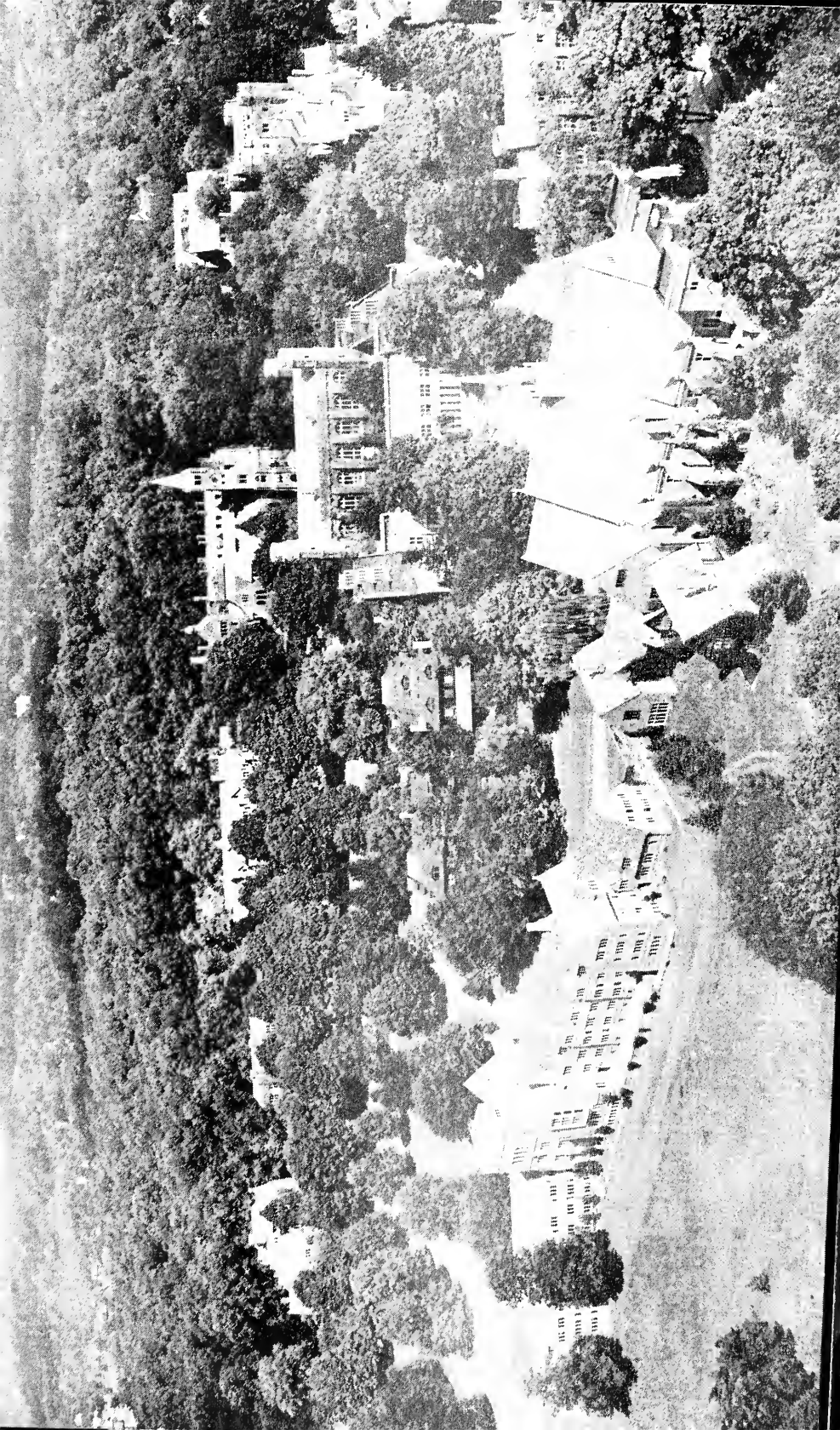
Supervised units of work will be given as appropriate for individual students. These units of work do not require field instruction.











## Courses in Related Departments in the Graduate School<sup>1</sup>

(See Calendar of Graduate Courses for course descriptions.)

### Economics

- Comparative Economic Systems
- The Development of Underdeveloped Areas
- Government and Business
- Labor and Management

### Education and Child Development

- Advanced Clinical Evaluation
- Problems of Child Development
- Principles of School Guidance
- Developmental Psychology
- Research and Measurement in Education  
and Child Development

### Political Science

- Problems of Public Administration
- Law and Society

### Psychology

- Learning Theory
- Comparative Psychology
- Personality
- Emotion and Motivation
- Social Psychology
- Advanced Statistics

### Sociology and Anthropology

- Culture and Personality
- Sociological Theory
- Comparative Social Institutions
- Dynamics of Social Change
- Social Stratification and Minority Groups

Graduate courses at the University of Pennsylvania are also available for graduate students of Bryn Mawr College. For information regarding the reciprocal arrangement with the University, see the section under Admissions.

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<sup>1</sup>Courses to meet the Social Science requirement of the Department may be selected from two or more of these departments. Students must meet the requirements of the respective departments for admission to courses.

## Field Instruction

FIELD INSTRUCTION is an integral part of certain courses. For each student in these courses, field instruction is arranged in an established social agency of good standards. The purpose of the field instruction is to supplement the class work, giving the student the opportunity to apply the knowledge gained in class and thus to deepen the knowledge and develop skill in its use. It is planned by the agency in such a way as to give content, sequence and progression in the assignments made to the students. The class sessions and the field instruction run concurrently in order to ensure an integration of the content of the two. Except in unusual circumstances, the student remains in the same agency during each year of field instruction.

The time allotted for field instruction is a minimum of 400 hours per year for first-year courses and 600 hours per year for second-year courses. In a typical program, this consists of field practice for first-year students of approximately 14 hours per week, from October through January, and 21 hours per week, from February through May; and for the second-year students, 21 hours per week for each of the two semesters. Individual arrangements may be worked out on the basis of agency and student needs.

The following agencies in Pennsylvania and New Jersey are in use as field instruction centers (1957-59) :

Albert Einstein Medical Center, Philadelphia, Pa.

Allentown State Hospital, Allentown, Pa.

Bryn Mawr Hospital, Bryn Mawr, Pa.

Child Care Service of Delaware County, Media, Pa.

Child Study Center, Philadelphia, Pa.

Child Study Institute, Bryn Mawr College, Bryn Mawr, Pa.

Children's and Family Service of Baltimore County, Towson, Md.



Children's Aid Society of Pennsylvania, Philadelphia, Pa.  
Devereux Schools, West Chester, Pa.  
Eastern Pennsylvania Psychiatric Institute, Philadelphia, Pa.  
Episcopal Community Services, Philadelphia, Pa.  
Family and Children's Service of Lancaster County, Lancaster, Pa.  
Family Counselling Service-Camden, Camden, N. J.  
Family Service of Delaware County, Media, Pa.  
Family Service of Northampton County, Bethlehem, Pa.  
Family Service of Lehigh County, Allentown, Pa.  
Family Service of Philadelphia, Philadelphia, Pa.  
Health and Welfare Council, Philadelphia, Pa.  
Health and Welfare Council of Philadelphia,  
Delaware County District, Media, Pa.  
Hospital of the University of Pennsylvania, Philadelphia, Pa.  
Jewish Family Service of Philadelphia, Philadelphia, Pa.  
Mercer County Guidance Center, Trenton, N. J.  
Montgomery County Board of Assistance, Norristown, Pa.  
Norristown State Hospital, Norristown, Pa.  
Philadelphia General Hospital, Philadelphia, Pa.  
Philadelphia Psychiatric Hospital, Philadelphia, Pa.  
Philadelphia State Hospital, Philadelphia, Pa.  
St. Christopher's Hospital, Philadelphia, Pa.  
Veterans Administration Mental Hygiene Clinic, Philadelphia, Pa.  
Wharton Centre, Philadelphia, Pa.

## Fees and Residence

### FEES

THE TUITION FEE for graduate students is \$800 a year, payable one half early in the first semester and the other half early in the second semester.

For students registered for part-time work the fee for each course, seminar, or unit of supervised work, is \$300 a year or \$150 a semester.

Fees for auditors are the same as for students registered in courses for credit.

All students taking courses which require field instruction are charged a fee of \$10 a semester for each such course taken during the academic year. This fee covers a part of the expenses of field supervision. In addition, students are required to meet their travelling and incidental expenses while working in the field during the academic year and vacations.

The graduation fee for Doctors of Philosophy and Masters of Social Service is \$20.00.

### SUMMARY OF EXPENSES FOR THE ACADEMIC YEAR

	1959-61
Tuition Fee .....	\$800
Residence Fee at Graduate Center (including health service) .....	950 <sup>1</sup>
Dispensary Fee (for non-resident students) .....	15
Fee for Field Work Manual, Thesis Manual and other materials .....	5
Field Instruction Fee .....	20
Graduation Fee .....	20
Expenses, Christmas and spring vacations, commuting to field work, books .....	variable

<sup>1</sup>Living expenses other than at the Graduate Center should be no higher than this amount.

Students whose fees are not paid before November 1st in the first semester and before March 1st in the second will not be permitted to continue in residence or to attend their classes. No reduction of the tuition fee will be made on account of absence, withdrawal, dismissal or for any other reason.

The Office of the Recorder will supply on request one transcript of the record of each graduate student free of charge. For additional transcripts a charge of \$1.00 each will be made.

## THE GRADUATE CENTER<sup>1</sup>

RESIDENCE for forty-five women graduate students is provided in the Graduate Center, which lies at the north end of the campus about an eight-minute walk from the Library and a fifteen-minute walk from the Pennsylvania Railroad Station in the town of Bryn Mawr. There is a separate room for each student; meals and health service are included in the residence charge.

Besides housing forty-five students, the Graduate Center is the headquarters of the Graduate Club, the nucleus of the social life of the Graduate School. The Center's public rooms — a large living room and the Manning-Smith recreation room — are available to all members of the Club. The dining room, which seats sixty, is open to non-resident students living outside the Center who wish to lunch or dine there. For the residents there are smoking rooms and tea pantries. The bedrooms are fully furnished except for curtains. Bed linen, including blankets, is provided but students should bring their own towels. Because of College fire regulations, smoking is not permitted in the bedrooms.

Application for a room should be made as early as possible. A room-contract, which will be sent on request, must be signed and returned, with the registration fee of ten dollars, to the Dean of the Graduate School. The amount of this fee will be deducted from the residence

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<sup>1</sup>Residence in the Graduate Center is sometimes not convenient for students in field instruction owing to travel time and regulations concerning meals and vacation periods. Students are advised to consider these factors in deciding about living accommodations.

fee. The registration fee will not be refunded under any circumstances. A student in residence or a new student who cancels her reservation after September 1st prevents some other student from obtaining accommodation. Therefore, unless a student sends notice of withdrawal in writing to the Dean of the Graduate School before September 1st, she is responsible for that portion of the residence charge which the College loses by reason of her withdrawal, whether she fails to occupy the room at all or vacates it during the year. Appropriate reduction or remission is made for that portion of the residence fee which represents reduced expense to the College for food; a further remission or reduction is made if the College is able to reassign the student's room to some other student not previously in residence. The student herself is not entitled to dispose of the room she leaves vacant. In cases of absence from the College extending over six weeks or more, owing to illness, there will be a proportionate reduction in the charge for the cost of food.

The regular charge for residence (room, board and health service) for graduate students is \$950 a year, payable one half early in the first semester and the other half early in the second semester.

Residence in the Graduate Center is for the academic year only — from the opening of college until Commencement Day. All college residence halls are closed during the Christmas vacation but accommodations in the neighborhood can usually be secured by graduate students who are required to continue their work. During the spring vacation one hall of residence is kept open and graduate students may occupy rooms in it at a fixed rate. Baggage will not be accepted at the College before September 15th. It should be sent prepaid, addressed to the Graduate Center.

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

# Student and Alumni Organizations

## GRADUATE CLUB

ALL RESIDENT STUDENTS in the Graduate School are members of the Graduate Club and non-residents may become members. The organization of the life of the graduate student in all matters not purely academic or affecting hall management is in the hands of the Club. The President of the Graduate Club is a member of the College Council, a non-legislative body which meets periodically to discuss matters concerning the college as a whole. The Council of the Graduate Club considers policies relating particularly to the Graduate School.

## STUDENT ORGANIZATION OF THE DEPARTMENT OF SOCIAL WORK

ALL FULL-TIME AND PART-TIME STUDENTS in the Department of Social Work and Social Research are eligible for membership in the Student Organization. The organization is concerned with the many phases of student life, such as social gatherings, special events, administration of student lounge, self-regulation of Reading Room and other student needs. The Student Organization and Faculty work closely together to promote the objectives of the Department.

## ALUMNI ASSOCIATION OF THE DEPARTMENT

THE ALUMNI ASSOCIATION of the Department was organized to further the development of the Department and its alumni. Activities of the Association include an annual reception in honor of cooperating agencies and student supervisors, an institute for alumni and practicing social workers in the community, a spring breakfast for students to be awarded the M.S.S. or the Ph.D. In addition, the Association makes available the Alumni Tuition Scholarship, to which applicants for admission from the Philadelphia area are eligible.

Present officers are:

MISS ELIZABETH M. ROBINSON, *President*

MISS ROSE C. MENNIG, *Vice President*

MISS CHARLOTTE J. NORVELL, *Treasurer*

MRS. EDWARD P. HOLLINGSWORTH, *Corresponding Secretary*

SISTER ELEANOR JAMIESON, *Recording Secretary*

## Fellowships and Scholarships

THE DEPARTMENT OF SOCIAL WORK offers a fellowship of \$2,050 and one or two scholarships of \$1,350 to women. In addition, the College has scholarships of \$1,350 which are open to men and women for study in any department. Tuition scholarships, \$800, are also available to men and women whose homes are in the Philadelphia area.

All Fellows and Scholars are required to devote full time to graduate work and to pay the tuition fee of \$800. Women in their first year at Bryn Mawr must live at the Graduate Center. Others may elect to do so.

Applications for resident fellowships and scholarships should be made to the Director of the Department of Social Work and must be filed not later than February 1st preceding the academic year for which they are desired. Blanks are forwarded to all applicants. Awards are announced each year on April 1st. Original papers and photographs, sent by applicants in support of their applications, can be returned only if postage is enclosed for that purpose, or specific instructions are given for return by express. Letters from professors and instructors and other individuals are filed for reference.

*The Carola Woerishoffer Fellowship in Social Work and Social Research:* A fellowship, either resident or non-resident, of the value of \$2,050, is offered annually to women students who are citizens of the United States or Canada. This is awarded on the ground of excellence in scholarship to a candidate who has completed at least one year of graduate work at a college of recognized standing.

*The Carola Woerishoffer Scholarship in Social Work and Social Research:* A scholarship, of \$1,350, is offered annually to a woman student in the Department of Social Work.

*The Alumni Association of the Graduate Department of Social Work and Social Research* usually provides a tuition scholarship open to men and women, either first- or second-year students.

## AGENCY FELLOWSHIPS AND SCHOLARSHIPS

A number of scholarships, ranging in value up to \$2,000, are offered to both men and women by local, state and national agencies in the field of social work practice. Acceptance by the Graduate School is a prerequisite for candidacy for these scholarships, and in some instances the awards require an agreement relative to employment for one year following the holding of a grant. Scholarships are available in case-work, group work and community organization settings.

Outstanding national scholarship programs have been established by the National Foundation for Infantile Paralysis, the Girl Scouts of America, the National Board of the Young Women's Christian Association, the American Foundation for the Blind, Inc., the National Council of Jewish Women, the National Tuberculosis Association and the American Association of University Women. In addition to the generous awards made by these groups, there are many others available, some regional in designation. Students are urged to consult their colleges and community agencies for information in regard to such opportunities.

Fellowships are awarded on the basis of need and promise for contribution to the field of social work. The Graduate School will collaborate with the student in identifying assistance best suited to individual qualifications and needs.

## FEDERAL TRAINEESHIPS

The United States Public Health Service offers traineeships of \$1,800 for first-year and \$2,000 for second-year students, both men and women. The holders of such stipends must have career objectives in psychiatric social work.

Advanced traineeships of the Public Health Service are available for the doctoral program. These vary in amount from \$2,400 to \$3,600 depending upon the experience of the candidate and the year of training for which they are granted. Additional traineeships for specialized research training in mental health will be granted if funds are available.

The Office of Vocational Rehabilitation offers traineeships of \$1,800 for first-year and \$2,000 for second-year students. These grants are open to both men and women whose career objectives are in the field of rehabilitation.

A limited number of both United States Public Health Service and Office of Vocational Rehabilitation traineeships are made available to the Department and are allocated to students after they have been accepted for admission.

### RESEARCH ASSISTANTSHIPS

Several Research Assistantships are available for men and women ranging in amounts from \$1,200 to \$2,400 with remission of tuition. These assistantships are available to candidates for the degree of Doctor of Philosophy at Bryn Mawr College. The holder of an assistantship will devote one-third to one-half time to the research being carried on in the Department and the remainder of the time to study. Applications for these assistantships should be made as early as possible, but may be made up to June 1st.

*Susan M. Kingsbury Research Assistantship:* A research assistantship, of the value of \$1,400 with remission of tuition, will be granted to an advanced student, male or female, who from either training or experience has knowledge of methods and techniques in social research. The holder of the Assistantship will give half time to the research of the Department and half time to study and is not permitted to hold any other paid position.

(*The Susan M. Kingsbury Research Grant* in Social Research, value \$300, is awarded every third year on the recommendation of the Director of the Graduate Department of Social Work and Social Research to advanced students, men and women, preferably candidates for the degree of Doctor of Philosophy.)

### TEACHING ASSISTANTSHIP

A Teaching Assistantship in Social Work and Social Research provides a stipend of \$1,050 plus two-thirds tuition. The assistant will be expected to carry out assignments related to the teaching program. These duties should not exceed twelve hours a week, or one-third of the assistant's time. He or she may carry two full units in the remaining two-thirds time. This assistantship is suitable for a student working towards the Ph.D.



## GRADUATE PRIZE

*The Susan B. Anthony Memorial Prize*, value \$500, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered every two years to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic or political position of women. The award is made by a committee of which the President of the College is chairman.

## Loan Funds

*The Bertha Goldstein Memorial Loan Fund*, established in honor of Bertha Goldstein, A.B. 1938 and M.A. 1939, is a revolving fund from which, upon recommendation of the Department of Social Work and Social Research, a limited number of loans, not exceeding \$150, may be made to graduate students of Social Work and Social Research. Loans are made without interest and must be repaid within five years.

*The Ethel Rupert Memorial Loan Fund* was established in 1951 by the friends of Ethel Rupert to commemorate her long interest in the preparation of personnel in public welfare. It is a revolving fund from which small loans and transportation scholarships are made to graduate students in the Department of Social Work and Social Research, at the discretion of the Department.

*The Rachel Pflaum Memorial Loan Fund*, established in 1926 in memory of Rachel Pflaum, and transferred to Bryn Mawr College in 1951, is a revolving fund from which loans, not to exceed \$200, for tuition purposes may be made to students who are recommended by the Director of the Department of Social Work and Social Research.

*The Carola Woerishoffer Club Fund* is a small revolving fund from which loans may be made to students in the Department of Social Work and Social Research.

## The Library

THE DEPARTMENT OF SOCIAL WORK AND SOCIAL RESEARCH has its own Library and Reading Room including a collection of books made available on permanent loan from the M. Carey Thomas Library as well as periodicals and pamphlet material in the field of social welfare.

The M. Carey Thomas Library now contains over a quarter of a million volumes. The Library has a good working collection in all fields in which graduate study is offered. The collection includes files and current numbers of about one thousand periodicals published in the United States and abroad.

The open shelf system provides the maximum of free access to the stacks so that almost all books except those in the Rare Book Room are directly available to the students. The Reference Room and Periodical Room provide ready access to standard works of reference.

Provision is made in the Quita Woodward Memorial Room for books for pleasure or recreational reading. This collection, now numbering more than two thousand volumes, includes books in literature, art, religion, and current affairs as well as many of the classics.

Other facilities available to graduate students are the rich resources in the libraries of the Philadelphia area. Through the services of the Union Library Catalogue at the University of Pennsylvania, volumes in over 300 libraries within the area may be easily located. The Philadelphia Bibliographical Center and Union Library Catalogue has recorded over 3,500,000 titles in the region by which research workers are aided in bibliographical problems outside the scope of any one library. Through this channel the great collections of the University of Pennsylvania, the Free Library of Philadelphia, the Historical Society of Pennsylvania as well as the Library Company of Philadelphia, the American Philosophical Society, the Franklin Institute, the Academy of Natural Sciences, the College of Physicians, Haverford College, Swarthmore College and Temple University are made available. Graduate students who wish to use other libraries for purposes of reference may secure letters of introduction from the Bryn Mawr librarian.

## Health

**CERTAIN HEALTH REQUIREMENTS** must be met by all entering students. The medical examination blank provided by the College must be completed and filed at the time of application. After acceptance every student must also file a physician's certificate stating that he or she has been vaccinated against smallpox within one year of entrance, and that he or she exhibited a typical or immune reaction to this vaccination. Students who do not certify to vaccination are vaccinated at the time of their entrance and charged a fee of two dollars. There is no exception to this rule.

Resident students must present on a separate blank, a statement of immunization against tetanus and diphtheria by toxoid and the result of a Mantoux test, all done within one year of entrance. If the Mantoux test is reported positive, a flat chest plate is required before entrance. This X-ray must be repeated yearly while the student is in residence, at the student's expense. If these tests have not been completed when the student arrives in Bryn Mawr they will be done at the time of the initial medical examination at a fee of one dollar for each test.

Every resident graduate student must also file a certificate stating that her eyes have been examined by an ophthalmologist within six months before entrance to the Graduate School. Failure to comply with the above rule entails an examination by one of the college consultants for which the student will be charged as a private patient by the ophthalmologist who makes the examination.

Every entering resident graduate student is examined by the physician of the college, with reference to physical development and general health. Second- and third-year residents whose health records have been approved by the college physician are not re-examined. Any student, who at the time of the examination or at any time during the year, is not in good health, is placed on the health supervision list.

The College maintains a modern 22-bed Infirmary staffed by 5 registered nurses and a secretary-technician. The college physician is in

her office in the college infirmary daily and may be consulted by the students without charge. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. The student must meet the expense if consultation is required. The Infirmary is open when College is in session, and during the Spring vacation. It is closed during the Christmas vacation.

The residence fee entitles the resident student to free consultation with the college physician and college psychiatrists and treatment in the college dispensary. It also entitles her to be cared for in the Infirmary for seven days, during the year, not necessarily consecutive; to attendance by the college physician and to general nursing care during this time. This holds true provided her illness is not contagious and is not sufficiently serious to require the services of a special nurse. In case of contagious disease special nursing is obligatory and the student must meet the expense. The fee for each day in the Infirmary after the seven-day period is \$9.00 per day.

Every non-resident student admitted to the Department for more than one unit of work per year is required to pay the health fee of \$15.00 unless other arrangements are made with the director of the department prior to registration. The fee entitles the student to consultation with the college physicians and psychiatrists, and to dispensary care. *Since non-resident students cannot be given bed care in the Infirmary they are urged to take out Hospital Insurance.*

## Degrees Awarded

1957

### Doctor of Philosophy

BERNICE J. GOODSITT of Pennsylvania

A.B. University of Chicago 1938; M.S.W. Tulane University School  
of Social Work 1941

### Master of Social Service

MICHELE CLAUDE ANGUENOT of France

*Diplôme d'Infirmière*, Ecole de la Croix, St. Simon, 1950 and  
*Diplôme d'Assistante Sociale* 1955

UVELIA SYLVATIA A. BOWEN of Pennsylvania

A.B. Virginia Union University 1945

MERLE BROBERG of Minnesota

A.B. University of Minnesota 1949

MARJORIE ELIZABETH DUCKREY of Pennsylvania

A.B. Shaw University 1937

IRMA MAY FRITSCHMAN of Pennsylvania

A.B. Colby College 1950

FLORENCE SARPETA HOLMES of Pennsylvania

A.B. University of Rochester 1927; M.A. Cornell University 1943

VALERIE LEONORE JACKSIER of Pennsylvania

B.S. University of Pittsburgh 1955

ANNA KYRIAZAKI MILLER of Greece

A.B. Ohio University 1955

CLARA S. MILLER of Pennsylvania

A.B. University of Pennsylvania 1955

ELIZABETH BUNN MURPHEY of Washington, D. C.

A.B. Swarthmore College 1955

AINA OZOLINS NUCHO of Latvia  
A.B. St. Olaf's College 1950

JOHN D. O'HARA, JR. of Pennsylvania  
A.B. Maryknoll College 1949

NADJA DEBBIE PATS of Pennsylvania  
B.S. University of Maryland 1951

ROBERT EDNA ROBINSON of Ohio  
A.B. Ohio State University 1953

MARY ANN SIMMENDINGER SHANNON of Pennsylvania  
A.B. Ursinus College 1953

JEAN HELEN SPARKMAN of Pennsylvania  
B.S. Temple University 1955

RAYMOND MARYN STEINBERG of Pennsylvania  
A.B. University of Pennsylvania 1946

KATHLEEN CORLIES TATNALL of Pennsylvania  
A.B. Denison University 1955

ADRIENNE JOANNE VALENTINE of Pennsylvania  
A.B. Temple University 1955

ROBERT E. YOUNG of Pennsylvania  
A.B. Pennsylvania State University 1953

## 1958

BEVERLY A. ANZALONE of Pennsylvania  
A.B. Gettysburg College 1956

A. MAXINE BAUMHEIER of Pennsylvania  
B.F.A. Ohio State University 1947

SOLOMON MYER BROWNSTEIN of Pennsylvania  
B.S. Temple University 1954

NINA CHAIKEN of Pennsylvania  
A.B. University of Pennsylvania 1955

SYDNEY DICTOR of Pennsylvania  
B.S. Temple University 1949

SISTER MILLICENT J. DRAKE of Pennsylvania  
A.B. Moravian College 1954

NOREEN ELIZABETH HALL of Massachusetts  
A.B. Tufts University 1955

HAL BURTON HEATHERS of Washington  
A.B. University of Washington 1954

ROBERT N. KERBEL of Pennsylvania  
A.B. University of Pennsylvania 1953

SALLY LYON of New York  
A.B. Wellesley College 1955

ROSE CAROLINE NIXON MIDDLETON of Pennsylvania  
A.B. University of Pennsylvania 1954

ALBERT JOHN MOLITOR of Pennsylvania  
A.B. Temple University 1953

KATHARINE SNYDER SASSÉ of Arizona  
A.B. Swarthmore College 1955

ISABELLE LATORRE SCARAN of Pennsylvania  
A.B. Chestnut Hill College 1945

MARJORIE BENSON SULLIVAN of Massachusetts  
A.B. Upsala College 1956

STELLA K. TRYKA of New Jersey  
A.B. Albright College 1955

NAOMI TUMARKIN of Pennsylvania  
B.S. Temple University 1941

Advisory Committee on Community Relations  
for  
The Department of Social Work and Social Research

*Chairman:* EVAN RANDOLPH, JR.

MRS. CURTIS BOK	MRS. ANDERSON PAGE
H. FRANCIS DE LONE	MISS MARY POOLE
MRS. RAYMOND K. DENWORTH	JOHN P. ROBIN
MRS. ALBERT M. GREENFIELD	MISS ELIZABETH M. ROBINSON
THOMAS B. HARVEY	MRS. ROGER SCATTERGOOD
MRS. P. BRACKLEY HEPBURN	MRS. KARL R. SCHOETTLE
DR. JOHANNES HOEBER	MISS LILIAN SHARPLEY
DR. ELIZABETH LAWDER	WILLIAM H. WILL
NORMAN V. LOURIE	MRS. ELIAS WOLF
MRS. JAMES W. ORAM	MRS. ROBERT M. WOODBURY
RALPH ORMSBY	LOWELL WRIGHT



## How to Get to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

**By railroad:** Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

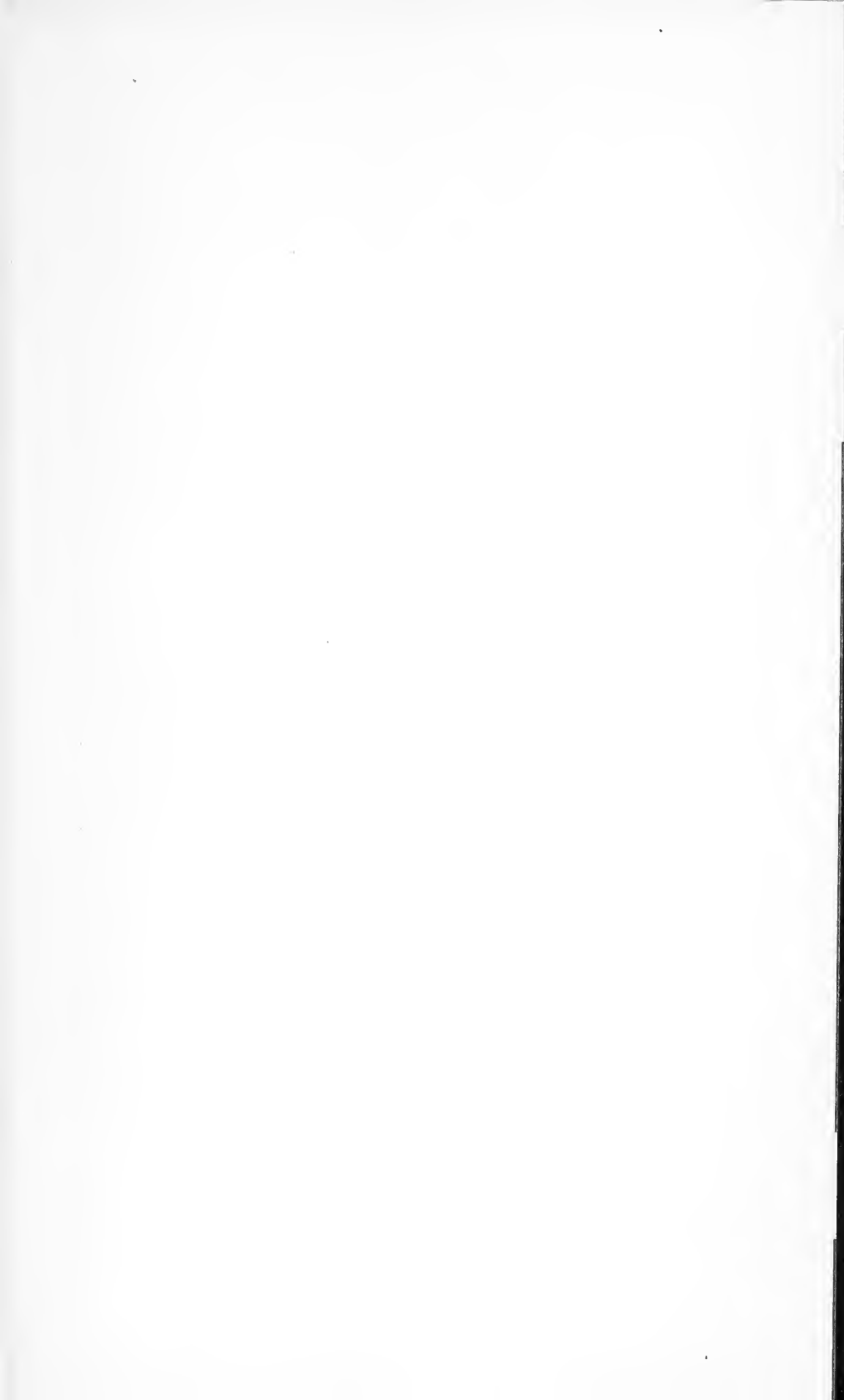
To walk to 815 New Gulph Road from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery and continue on Morris to the next traffic light. Turn left on to New Gulph Road until reaching 815, which is on the right just beyond Caversham Road.

**By automobile:** From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. No. 43) turning right at Pa. No. 23, which is 3.5 miles east of the toll gate; continue into Alternate No. 23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues and take Morris Avenue to the next traffic light. Turn left on to New Gulph Road.

There is no parking at 815. Almost directly across New Gulph Road is Merion Gate, the entrance to a College parking lot.

**By air:** Passengers arrive at the Philadelphia International Airport and can use the airport limousine to Philadelphia or take a taxi directly to Bryn Mawr, a distance of 14 miles.





BRYN MAWR, PENNSYLVANIA

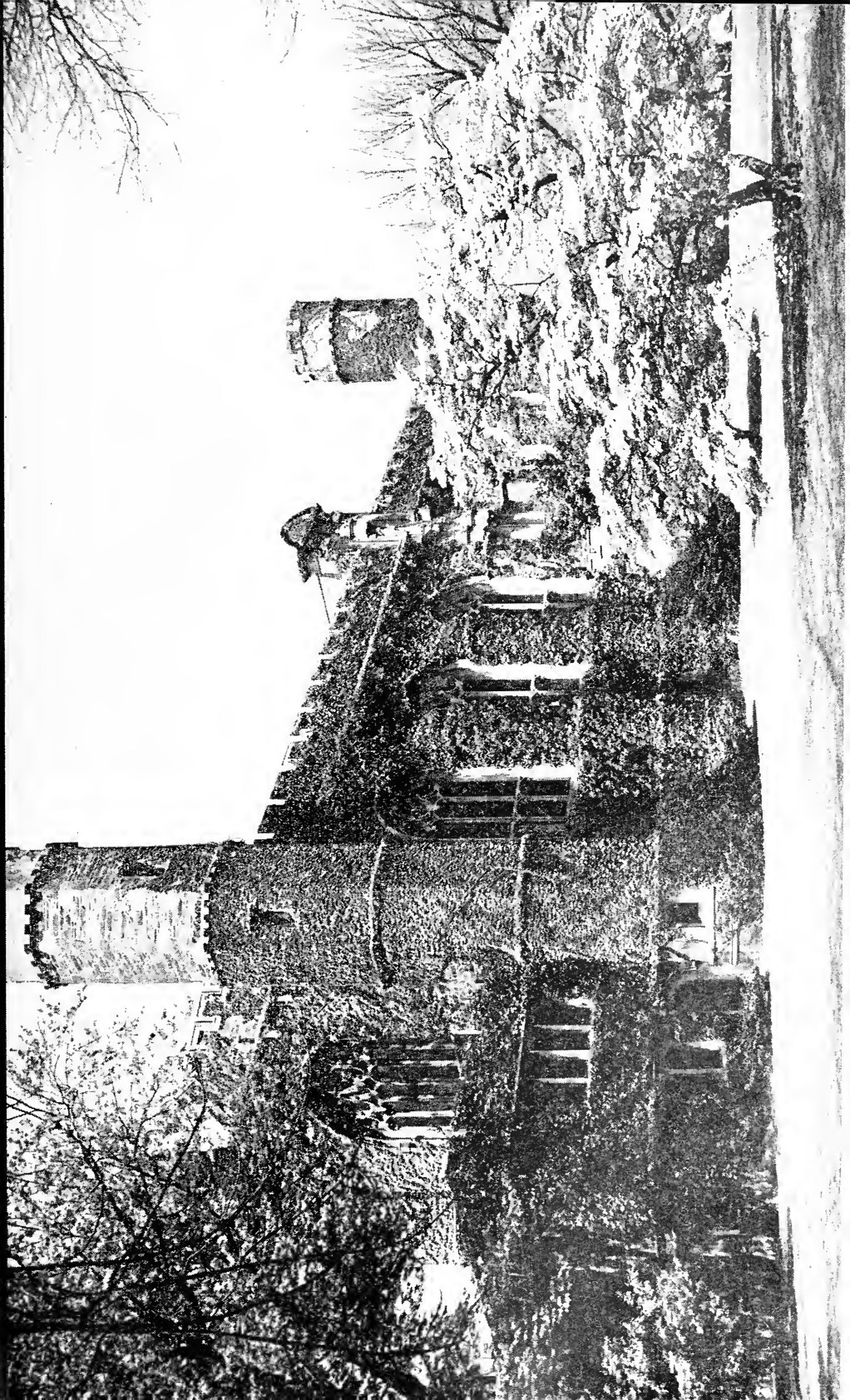
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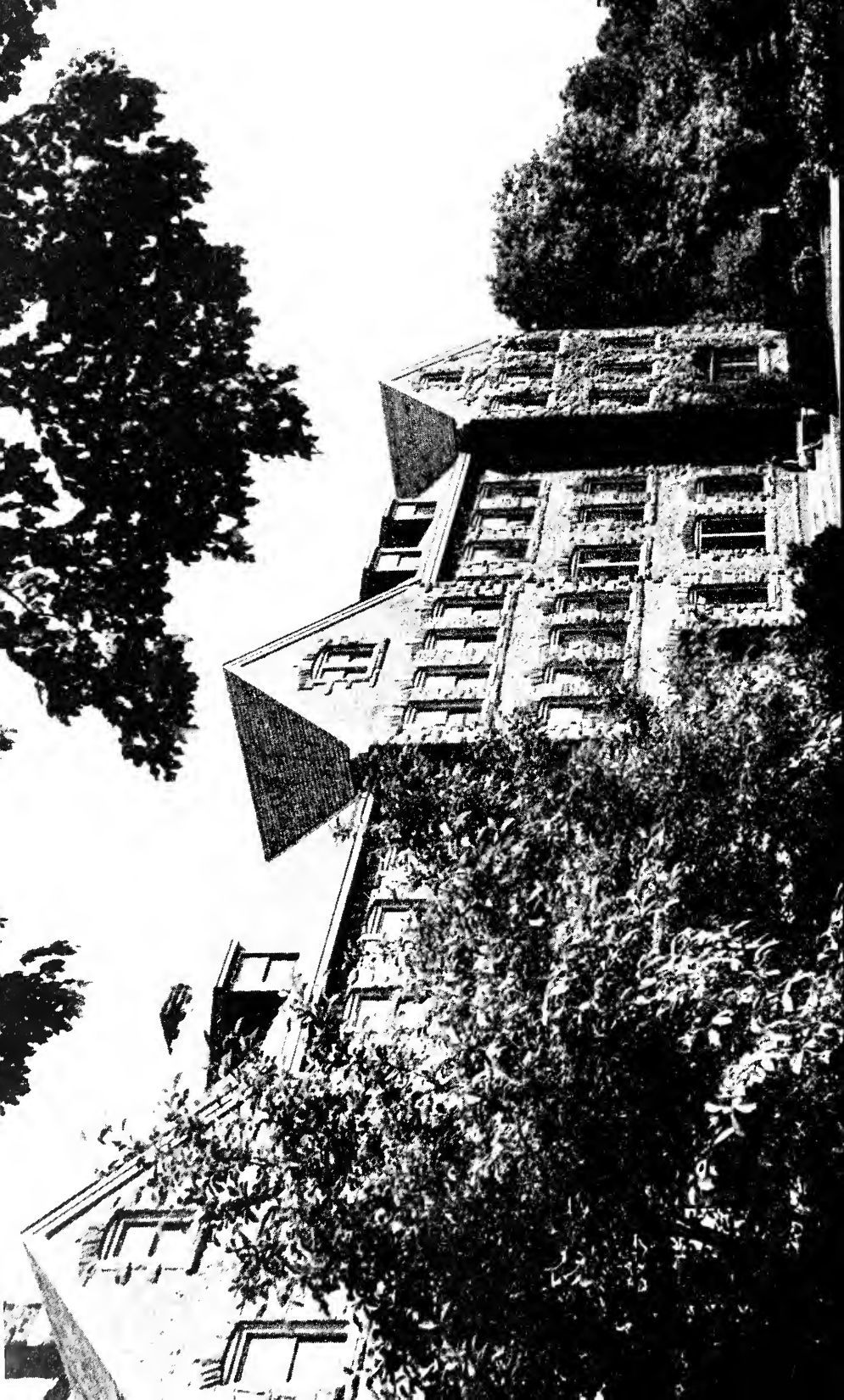
# BRYN MAWR

COLLEGE CALENDAR

THE GRADUATE SCHOOL 1960-1961







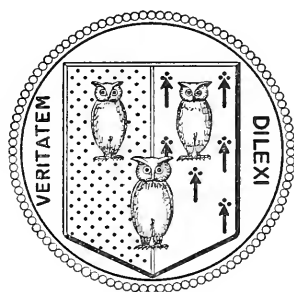


# Bryn Mawr College Calendar

THE GRADUATE SCHOOL

ISSUE FOR THE SESSION OF

1960 • 1961



JULY 1960

Volume LIII

Number 2

# College Calendar

## The Graduate School 1960-1961

### FIRST SEMESTER

1960

- September 28.* Graduate Center opens to resident graduate students
- September 29.* Registration period for graduate students begins  
Final date for filing applications for admission to the Graduate School
- October 3.* Work of 76th academic year begins at 9 A.M.
- October 6.* Registration period for graduate students ends
- October 22.* Russian language examinations
- October 29.* French language examinations
- November 5.* Spanish and Italian language examinations  
Statistics examinations for M.A. candidates
- November 12.* German language examinations
- November 23.* Thanksgiving holiday begins after last class
- November 28.* Thanksgiving holiday ends at 9 A.M.
- December 16.* Christmas vacation begins at 12:45 P.M.

1961

- January 3.* Christmas vacation ends at 9 A.M.
- January 7.* Russian language examinations
- January 14.* French language examinations
- January 20.* Last day of lectures
- January 21.* Spanish and Italian language examinations  
Statistics examinations for M.A. candidates

- January 23.* Collegiate examinations begin
- January 28.* German language examinations
- February 1.* Registration period for graduate students begins  
Final date for filing applications for admission for Semester II
- February 2.* Collegiate examinations end

## SECOND SEMESTER

- February 6.* Work of the second semester begins at 9 A.M.
- February 8.* Registration period for graduate students ends
- March 24.* Spring vacation begins after last class
- April 4.* Spring vacation ends at 9 A.M.
- April 8.* Russian language examinations
- April 10.* Ph.D. dissertations in all fields except experimental science and mathematics must be submitted to the Graduate School office
- April 15.* French language examinations
- April 22.* Spanish and Italian language examinations  
Statistics examinations for M.A. candidates
- April 29.* German language examinations
- May 1.* Ph.D. dissertations in experimental science and mathematics must be submitted to the Graduate School office
- May 19.* Last day of lectures
- May 22.* Collegiate examinations begin
- June 2.* Collegiate examinations end
- June 6.* Conferring of degrees and close of the 76th academic year
- June 10.* Alumnae Day

1960	1961		1962
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
JULY	JANUARY	JULY	JANUARY
..... 1 2	1 2 3 4 5 6 7	..... 1	.. 1 2 3 4 5 6
3 4 5 6 7 8 9	8 9 10 11 12 13 14	2 3 4 5 6 7 8	7 8 9 10 11 12 13
10 11 12 13 14 15 16	15 16 17 18 19 20 21	9 10 11 12 13 14 15	14 15 16 17 18 19 20
17 18 19 20 21 22 23	22 23 24 25 26 27 28	16 17 18 19 20 21 22	21 22 23 24 25 26 27
24 25 26 27 28 29 30	29 30 31 .....	23 24 25 26 27 28 29	28 29 30 31 .....
31 .....		30 31 .....	
AUGUST	FEBRUARY	AUGUST	FEBRUARY
.. 1 2 3 4 5 6	..... 1 2 3 4	.... 1 2 3 4 5	..... 1 2 3
7 8 9 10 11 12 13	5 6 7 8 9 10 11	6 7 8 9 10 11 12	4 5 6 7 8 9 10
14 15 16 17 18 19 20	12 13 14 15 16 17 18	13 14 15 16 17 18 19	11 12 13 14 15 16 17
21 22 23 24 25 26 27	19 20 21 22 23 24 25	20 21 22 23 24 25 26	18 19 20 21 22 23 24
28 29 30 31 .....	26 27 28 .....	27 28 29 30 31 ....	25 26 27 28 .....
SEPTEMBER	MARCH	SEPTEMBER	MARCH
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4 5 6 7 8 9 10	5 6 7 8 9 10 11	3 4 5 6 7 8 9	4 5 6 7 8 9 10
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18 19 20 21 22 23 24	19 20 21 22 23 24 25	17 18 19 20 21 22 23	18 19 20 21 22 23 24
25 26 27 28 29 30 ..	26 27 28 29 30 31 ..	24 25 26 27 28 29 30	25 26 27 28 29 30 31
OCTOBER	APRIL	OCTOBER	APRIL
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2 3 4 5 6 7 8	2 3 4 5 6 7 8	8 9 10 11 12 13 14	8 9 10 11 12 13 14
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23 24 25 26 27 28 29	23 24 25 26 27 28 29	29 30 31 .....	29 30 .....
30 31 .....	30 .....		
NOVEMBER	MAY	NOVEMBER	MAY
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13 14 15 16 17 18 19	14 15 16 17 18 19 20	12 13 14 15 16 17 18	13 14 15 16 17 18 19
20 21 22 23 24 25 26	21 22 23 24 25 26 27	19 20 21 22 23 24 25	20 21 22 23 24 25 26
27 28 29 30 .....	28 29 30 31 .....	26 27 28 29 30 ....	27 28 29 30 31 .....
DECEMBER	JUNE	DECEMBER	JUNE
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4 5 6 7 8 9 10	4 5 6 7 8 9 10	3 4 5 6 7 8 9	3 4 5 6 7 8 9
11 12 13 14 15 16 17	11 12 13 14 15 16 17	10 11 12 13 14 15 16	10 11 12 13 14 15 16
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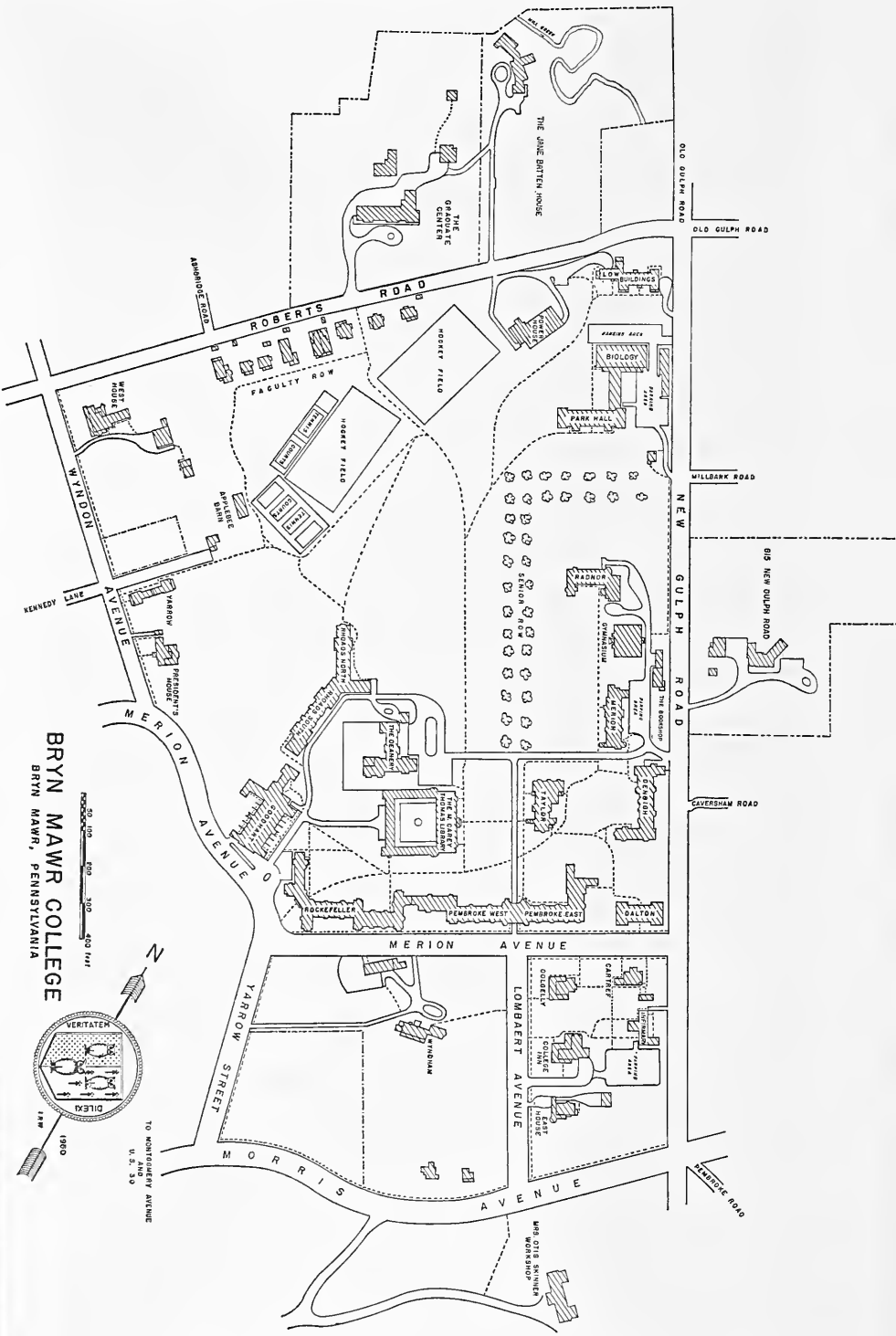
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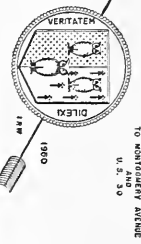
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*Photographs: The M. Carey Thomas Library; The Graduate Center.*



**BRYN MAWR COLLEGE**  
BRYN MAWR, PENNSYLVANIA



# Introduction

**B**RYN MAWR COLLEGE was founded as an institution of higher education for women by Dr. Joseph Taylor of Burlington, New Jersey, a member of the Society of Friends. The charter was granted by the Commonwealth of Pennsylvania in 1880. The College opened in 1885 with the first Graduate School for women and the first full graduate fellowships for women. The first Ph.D. was awarded in 1888, a year before the A.B. was conferred on students of an undergraduate class. The Graduate School has been open since the thirties to men as well as women.

Graduate work leading to the M.A. and the Ph.D. is offered in the fields of modern literatures, the classics, art and archaeology, music, history and social sciences, philosophy, mathematics, the natural sciences and psychology, and in mediaeval studies. A two-year course in Social Work and Social Research leads to the degree of Master of Social Service; the advanced program in this Department leads to the Ph.D.

The Bryn Mawr Graduate School provides special opportunities to graduate students for study and research in small seminars under the guidance of members of the faculty.

In all departments fellowships and scholarships are offered to applicants who are highly qualified for the work they propose to do. In a number of departments teaching or research assistantships are also available. Canadians may apply for fellowships or scholarships on the same basis as students from the United States. Awards are made to students from overseas through the Marguerite N. Farley Fund and through teaching assistantships in French, German, Italian and Spanish.

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*Alumnae Director, 1960-1965*

EDITH HARRIS WEST, *by invitation*<sup>14</sup>

*President of the Alumnae Association*



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MABEL LOUISE LANG, PH.D. (Bryn Mawr College), *Acting Dean of  
the College and Professor of Greek*

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*Librarian*

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CHARLES GHEQUIERE FENWICK, PH.D. (Johns Hopkins University),  
LL.D., *Professor Emeritus of Political Science*

---

1. On sabbatical leave for the year 1960-61.

2. On leave of absence for the year 1960-61.

- GRACE FRANK, A.B. (University of Chicago), *Professor Emeritus of Old French*
- MYRA RICHARDS JESSEN, PH.D. (Bryn Mawr College), *Professor Emeritus of German*
- HELEN TAFT MANNING, PH.D. (Yale University), LL.D., *Professor Emeritus of History*
- CORNELIA LYNDE MEIGS, A.B. (Bryn Mawr College), *Professor Emeritus of English Composition*
- FRITZ MEZGER, PH.D. (University of Berlin), *Professor Emeritus of Germanic Philology*
- MARY HAMILTON SWINDLER, PH.D. (Bryn Mawr College), LL.D., *Professor Emeritus of Classical Archaeology*
- ANNA PELL WHEELER, PH.D. (University of Chicago), Sc.D., *Professor Emeritus of Mathematics*
- MARY SUMMERFIELD GARDINER, PH.D. (Bryn Mawr College), *Professor of Biology, Acting Secretary of the Faculty, 1959-1961*
- HORACE ALWYNE, F.R.M.C.M. (Royal Manchester College of Music), *Professor Emeritus of Music and Visiting Professor*
- FRANCISCO AYALA, *Doctor en Derecho* (University of Madrid), *Professor of Spanish*
- ERNST BERLINER, PH.D. (Harvard University), *Professor of Chemistry*
- L. JOE BERRY, PH.D. (University of Texas), *Professor of Biology*
- ELEANOR A. BLISS, Sc.D. (Johns Hopkins University), Sc.D., *Dean of the Graduate School and Professor of Biology*
- THOMAS ROBERT SHANNON BROUGHTON, PH.D. (Johns Hopkins University), *Professor of Latin*<sup>1</sup>
- RHYS CARPENTER, PH.D. (Columbia University), Litt.D., *Professor Emeritus of Classical Archaeology and Visiting Professor*
- RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania), *Professor of Education and Psychology*

---

1. On leave of absence and sabbatical leave for the year 1960-61.

- FREDERICA DE LAGUNA, PH.D. (Columbia University), *Professor of Anthropology*
- LINCOLN DRYDEN, PH.D. (Johns Hopkins University), *Professor of Geology*<sup>1</sup>
- JOSÉ MARIA FERRATER MORA, *Licenciado en Filosofía* (University of Barcelona), *Professor of Philosophy*
- FELIX GILBERT, PH.D. (University of Berlin), *Professor of History*
- STEPHEN JOSEPH HERBEN, B.LITT., PH.D. (Princeton University), *Professor of English Philology*<sup>2</sup>
- JOSHUA C. HUBBARD, PH.D. (Harvard University), *Professor of Economics*
- AGI JAMBOR, M.A. (Royal Academy of Budapest), *Professor of Music and Director of Ensemble Groups*
- MABEL LOUISE LANG, PH.D. (Bryn Mawr College), *Acting Dean of the College and Professor of Greek*
- RICHMOND LATTIMORE, PH.D. (University of Illinois), LITT.D., *Paul Shorey Professor of Greek*<sup>3</sup>
- MARGUERITE LEHR, PH.D. (Bryn Mawr College), *Professor of Mathematics*
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- ANGELINE HELEN LOGRASSO, PH.D. (Radcliffe College), *Professor of Italian*
- KATHERINE D. K. LOWER, PH.D. (University of Wisconsin), *Professor of Social Work and Social Research*
- BERTHE MARIE MARTI, PH.D. (Bryn Mawr College), *Professor of Latin*
- AGNES KIRSOPP LAKE MICHELS, PH.D. (Bryn Mawr College), *Professor of Latin*<sup>4</sup>

---

1. On sabbatical leave, semester I, 1960-61.

2. On partial leave, semester I, sabbatical leave, semester II.

3. On leave of absence and sabbatical leave for the year 1960-61.

4. On sabbatical leave for the year 1960-61.

- WALTER C. MICHELS, PH.D. (California Institute of Technology), *Marion Reilly Professor of Physics*
- CHARLES MITCHELL, M.A., B.LITT. (Oxford University), *Richard M. Bernheimer Visiting Professor of History of Art*
- MILTON CHARLES NAHM, B.LITT., PH.D. (University of Pennsylvania), *Professor of Philosophy*
- MILDRED BENEDICT NORTHROP, PH.D. (Columbia University), *Professor of Economics*
- JANE MARION OPPENHEIMER, PH.D. (Yale University), *Professor of Biology*
- JOHN C. OXTOBY, M.A. (University of California), *Professor of Mathematics*<sup>1</sup>
- WILLIAM J. ROACH, PH.D. (University of Chicago), *Visiting Professor of Old French*
- CAROLINE ROBBINS, PH.D. (University of London), *Professor of History*<sup>2</sup>
- PAUL SCHRECKER, LL.D., PH.D. (University of Berlin), *Visiting Professor of Philosophy*
- ALEXANDER SOPER, III, M.F.A., PH.D. (Princeton University), *Visiting Professor of History of Art*
- ARTHUR COLBY SPRAGUE, PH.D. (Harvard University), *Mary E. Garrett Alumnae Professor of English Literature*
- K. LAURENCE STAPLETON, A.B. (Smith College), *Professor of English and Political Theory*<sup>3</sup>
- ISABEL SCRIBNER STEARNS, PH.D. (Bryn Mawr College), *Professor of Philosophy*
- LILY ROSS TAYLOR, PH.D. (Bryn Mawr College), LITT.D., *Professor Emeritus of Latin and Visiting Professor*
- EDWARD H. WATSON, PH.D. (Johns Hopkins University), *Professor of Geology*
- ROGER HEWES WELLS, PH.D. (Harvard University), *Professor of Political Science*

---

1. On leave of absence for the year 1960-61.

2. On sabbatical leave for the year 1960-61.

3. On sabbatical leave and leave of absence for the year 1960-61.

MARY KATHARINE WOODWORTH, PH.D. (Bryn Mawr College),  
*Professor of English*

DOROTHY WYCKOFF, PH.D. (Bryn Mawr College), *Professor of  
Geology*

MORTON EDWARD BITTERMAN, PH.D. (Cornell University), *Asso-  
ciate Professor and Professor-elect of Psychology*

ROBERT L. GOODALE, B.MUS. (Yale University), A.A.G.O., *Asso-  
ciate Professor and Professor-elect of Music*<sup>1</sup>

PETER BACHRACH, PH.D. (Harvard University), *Associate Pro-  
fessor of Political Science*

MORTON SACHS BARATZ, PH.D. (Yale University), *Associate Pro-  
fessor of Economics*<sup>2</sup>

WARNER B. BERTHOFF, PH.D. (Harvard University), *Associate  
Professor of English*

DONALD ROBERT BROWN, PH.D. (University of California), *Asso-  
ciate Professor of Psychology*<sup>2</sup>

FREDERIC C. CUNNINGHAM, JR., PH.D. (Harvard University), *As-  
sociate Professor of Mathematics*

ROBERT SIMON DAVIDON, PH.D. (University of Pennsylvania),  
*Associate Professor of Psychology*

FRANCES DE GRAAFF, PH.D. (University of Leyden), *Associate  
Professor of Russian, on joint appointment with Haverford  
College*

ARTHUR P. DUDDEN, PH.D. (University of Michigan), *Associate  
Professor of History*

JAMES W. FOWLE, PH.D. (Harvard University), *Associate Profes-  
sor of History of Art*

ROSALIE C. HOYT, PH.D. (Bryn Mawr College), *Associate Pro-  
fessor of Physics*

HERTHA KRAUS, PH.D. (University of Frankfurt), *Carola Woeri-  
shoffer Associate Professor of Social Work and Social Research*

---

1. On sabbatical leave for the year 1960-61.

2. On leave of absence for the year 1960-61.

GERTRUDE C. K. LEIGHTON, LL.B. (Yale University), *Associate Professor of Political Science*

WILLIAM C. LOERKE, M.F.A., PH.D. (Princeton University), *Associate Professor of History of Art*

MARIO MAURIN, PH.D. (Yale University), *Associate Professor of French*<sup>1</sup>

EDMUND V. MECH, PH.D. (Indiana University), M.S.S. (Bryn Mawr College), *Associate Professor of Social Work and Social Research*

MACHTELD JOHANNA MELLINK, PH.D. (University of Utrecht), *Associate Professor of Classical and Near Eastern Archaeology*

JOHN R. PRUETT, PH.D. (Indiana University), *Associate Professor of Physics*

BERNARD ROSS, M.S.S.A. (University of Pittsburgh), PH.D. (University of Michigan), *Associate Professor of Social Work and Social Research*

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GEORGE L. ZIMMERMAN, PH.D. (University of Chicago), *Associate Professor of Chemistry*

ROBERT L. CONNER, PH.D. (Indiana University), *Assistant Professor and Associate Professor-elect of Biology*

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GEORGE L. KLINE, PH.D. (Columbia University), *Lecturer and Associate Professor-elect of Russian and Philosophy*

ISABEL GAMBLE MACCAFFREY, PH.D. (Radcliffe College), *Assistant Professor and Associate Professor-elect of English*

---

1. On sabbatical leave, semester II, 1960-61.

- WILLIAM AUGUST WILSON, JR., PH.D. (University of California),  
*Associate Professor-elect of Psychology*
- RAYMOND F. BETTS, D.d'Univ. (University of Grenoble), PH.D.  
(Columbia University), *Assistant Professor of History*
- ROBERT HAWES BUTMAN, M.A. (University of North Carolina),  
*Assistant Professor of English on the Theresa Helburn Fund,  
and on joint appointment with Haverford College*
- ALEXANDER CAMBITOGLU, PH.D. (University of London), *Assis-  
tant Professor of Classical Archaeology*
- MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor  
of German and Adviser to Foreign Students*
- MICHEL GUGGENHEIM, PH.D. (Yale University), *Assistant Profes-  
sor of French*
- DAVID JOSEPH HERLIHY, PH.D. (Yale University), *Assistant Pro-  
fessor of History*
- SYLVIA W. KENNEY, PH.D. (Yale University), *Assistant Professor  
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HENRY GLEITMAN, PH.D. (University of California), *Visiting Lecturer, Semester II, in Psychology*

RICHARD C. GONZALEZ, PH.D. (University of Maryland), *Part-time Lecturer, Semester I, in Psychology and Post-Doctoral Fellow*

JOSEPH JULIUS GREENBAUM, PH.D. (University of California), *Visiting Lecturer, Semester I, in Psychology*

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- ERNEST A. FREDRICKSMEYER, PH.D. (University of Wisconsin), *Instructor-elect in Latin*
- ROBERT SUDERBURG, M.MUS. (Yale University), *Instructor-elect in Music*
- WILLIAM W. VOSBURGH, M.A. (University of Southern California), *Instructor-elect in Social Work and Social Research*
- FRITZ JANSCHKA, *Akademischer Maler (Akademie der Bildenden Künste), Artist in Residence*
- WILLIAM H. REESE, PH.D. (University of Berlin), *Director of Orchestra*
- ELIZABETH W. BANCROFT, A.B. (Vassar College), *Part-time Assistant in English*
- ELIZABETH E. BOOTH, M.A. (Bryn Mawr College), *Part-time Assistant in Music*
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- GERTRUDE R. HORWITZ, M.R.E. (Jewish Theological Seminary),  
*Part-time Assistant in Philosophy*
- ANNE HUDOCK, A. B. (Boston University), *Part-time Assistant in  
Biology*
- RADHIKA JAYAKAR, M.A. (Bryn Mawr College), *Part-time Assistant  
in Philosophy*
- ANN K. KNUDSEN, M.A. (University of Pennsylvania), *Part-time  
Assistant in Classical Archaeology*
- PHYLLIS SELTZER LACHS, M.A. (Bryn Mawr College), *Part-time  
Assistant in History*
- JANICE LEVINE, A.B. (Wellesley College), *Part-time Assistant in  
History of Art*
- JANE R. MCCONNELL, PH.D. (Bryn Mawr College), *Part-time As-  
sistant in Biology*
- MARILYN MCHENRY, A.B. (Pomona College), *Part-time Assistant  
in Education*
- SHARON MESSENGER, A.B. (College of Idaho), *Part-time Assistant  
in Biology*
- PATRICIA ONDERDONK, A.B. (Bryn Mawr College), *Part-time As-  
sistant in Biology*
- DOROTHEA J. RHEA, M.A. (Bryn Mawr College), *Part-time As-  
sistant in Mathematics*
- RICHARD SAKURAI, B.A. (Reed College), *Part-time Assistant in  
Physics*
- LAWRENCE VERBIT, A.B. (College of William and Mary), *Part-  
time Assistant in Chemistry*
- ILDIKO VON FENYES, M.A. (Bryn Mawr College), *Part-time Assist-  
ant in Physics*
- KAREN WIER, B.S. (University of Washington), *Part-time Assist-  
ant in Geology*

## Officers of Administration

MARIAN CARTER ANDERSON, B.S. (Simmons College), *Recorder of the College*

CAROL BIBA, A.B. (University of Wisconsin), *Director of Public Information*

LOUISE HODGES CRENSHAW, A.B. (Bryn Mawr College), *Director of the Bureau of Recommendations*

KATHERINE A. GEFFCKEN, M.A. (Bryn Mawr College), *Assistant Dean of the College*

PAUL W. KLUG, C.P.A., B.S. (Temple University), *Comptroller*

CHARLOTTE BRANDON HOWE, M.A. (Radcliffe College), *Director of Halls and Head Warden*

KATHERINE Y. MASELLA, A.B. (Bryn Mawr College), *Assistant to the Acting Director of Admissions*

MARGARET McCABE, M.A. (Bryn Mawr College), *Acting Director of Admissions*

CLARISSA WARDWELL PELL, *Executive Director of the Resources Committee*

HORACE T. SMEDLEY, *Superintendent of Buildings and Grounds*

## Library

JANET MARGARET AGNEW, M.A. (University of Manitoba), *Head Librarian*

PAMELA G. REILLY, M.S.L.S. (Drexel Institute), *Head of Circulation and Reference Department*

JANE WALKER, B.S. (Simmons College), *Head of Cataloguing Department*

ELIZABETH AMANN, M.L.S. (Rutgers University), *Assistant in Cataloguing Department*

KANTA BHATIA, M.S. (Simmons College), *Assistant in Cataloguing Department*

DOROTHY V. McGEORGE, B.S.L.S. (Drexel Institute), *Order Librarian*

YILDIZ VAN HULSTEYN, M.S.L.S. (Drexel Institute), *Librarian, West Wing*

LOIS E. WELLS, M.S.L.S. (Drexel Institute), *Assistant in Circulation Department*

## Foreign Students

MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*

## Halls of Residence

EMILY DUTROW, A.B. (Pennsylvania State University), *Warden of Merion*

CHARLOTTE GIRARD, M.A. (Bryn Mawr College), *Warden of Wyndham*

DULCIE GROVES, B.A. (University of Nottingham), *Warden-elect*

DIANTHA HAVILAND, M.A. (Bryn Mawr College), *Warden-elect*

KATHERINE HOOVER, B.MUS. (Eastman School of Music), *Warden of Pembroke East*

ANN K. KNUDSEN, M.A. (University of Pennsylvania), *Warden-elect*

SHARON MESSENGER, B.S. (College of Idaho), *Warden of the Jane Batten House*

## Health

ELIZABETH HUMESTON, M.D. (Cornell University), *College Physician*

FRIEDA W. WOODRUFF, M.D. (University of Pennsylvania), *Assistant College Physician*

HOWARD B. SMITH, M.D. (Jefferson Medical College), *Consulting Psychiatrist*

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

## Physical Education

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

ETHEL GRANT, *Instructor in Physical Education*

GLORIA SCHMIDT, M.A. (New York University), *Instructor in Physical Education*

JANET A. YEAGER, *Instructor in Physical Education*

## Child Study Institute

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania), *Director*

ELIZABETH WHEELER, M.S.S. (Bryn Mawr College), *Social Caseworker*

CORNELIA T. BIDDLE, A.B. (Bucknell University), *Part-time Social Caseworker*

ELIZABETH EMLEN, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*

BEATRICE SCHNEIDER, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*

ELSIE WAELDER, M.S.W. (Western Reserve University), *Part-time Social Caseworker*

LELIA BRODERSEN, M.A. (Temple University), *Psychologist*

ELEANOR BEATTY, M.A. (George Washington University), *Psychologist*

ANITA GRINNELL, M.S. (University of Pennsylvania), *Part-time Psychologist*

CONSTANCE GRANT, B.S. (University of Pennsylvania), *Remedial Reading Teacher*

MARGARET DEALY, M.D. (Cornell University Medical College), *Consulting Psychiatrist*

WILLIAM H. SISSON, M.D. (University of Vermont), *Consulting Psychiatrist*

HERMAN STAPLES, M.D. (Hahnemann Medical College), *Consulting Psychiatrist*

MARILYN MCHENRY, A.B. (Pomona College), *Assistant*

## Phebe Anna Thorne School

SUSAN E. MAXFIELD, M.S. (Syracuse University), *Director*

EVE BRILL, B.S. (Teachers College, Columbia University), *Teacher*

EMILY W. DUTROW, A.B. (Pennsylvania State University), *Assistant Teacher*

GEORGIANNA ENGSTROM, A.B. (University of Minnesota), *Assistant Teacher*

## Committees

### *The Graduate Committee*

PRESIDENT MCBRIDE, *Chairman*

DEAN BLISS, *Vice-Chairman*

MISS HOYT

MISS STEARNS

MR. NAHM

MISS MARTI

MR. BERRY

MRS. LOWER

### *The Graduate Scholarships Committee*

DEAN BLISS, *Chairman*

PRESIDENT MCBRIDE, *ex-officio*

MR. SPRAGUE

MR. BERLINER

MR. LEBANC



# The Graduate School

## ADMISSION

THE GRADUATE SCHOOL is open to qualified graduates in liberal arts, men and women, from colleges or universities of acknowledged standing. Application for admission, to be made to the Dean of the Graduate School, Bryn Mawr College, Bryn Mawr, Pennsylvania, should be supported by official transcripts of the student's full academic record and by letters from the dean and from two or more professors of the applicant's undergraduate college. Applications should be filed, complete, by the beginning of the appropriate registration period.

Admission to graduate courses is under the jurisdiction of the various departments which may, at their discretion, require students whose preparation is insufficient to pursue certain introductory courses before being enrolled in a graduate course. Admission to the Graduate School does not automatically qualify a student to become a candidate for an advanced degree. Students whose courses of study meet the prerequisites may on application to the Graduate Committee be enrolled as candidates for the Degrees of Doctor of Philosophy, Master of Arts or Master of Social Service.

Graduate Record Examination. The Bryn Mawr Graduate School recognizes as contributory evidence of the qualifications of a student for admission a record of attainment in the Graduate Record Examination as prepared and administered by the Educational Testing Service. The examination is a convenient method by which a student may supplement transcript records. Applicants for admission to the Graduate School who wish to take the examination should apply directly to the Graduate Record Examination, P.O. Box 592, Princeton, N. J., where full information may be secured and arrangements for taking the test may be made.

## REGISTRATION

Every graduate student must register for courses at the Office of the Dean of the Graduate School if possible in the opening week of the semester, certainly within the first two weeks. Permission to take advanced undergraduate and graduate courses must be secured from the various departments. Changes in registration must be approved by the Dean.

## Program of Study

THE GRADUATE PROGRAM is planned to give students a small number of hours in the seminar (usually not more than six) and ample time for individual work under the guidance of members of the faculty. Graduate students work in seminar rooms and laboratories close to the offices of members of the faculty and have abundant opportunity for conference and discussion.

Seminars and graduate courses are described under the announcements of the Departments. They are open to properly qualified first-year as well as more advanced graduate students.

Three units of graduate work constitute a full program. Instead of a seminar or graduate course, students may take for graduate credit:

1. A supervised unit of graduate work, equivalent to a seminar or graduate course, planned and examined by an instructor but carried on independently by the student. Such work may consist of reading with assigned reports, research with results submitted or a combination of both.
2. An advanced undergraduate course with additional work. Advanced undergraduate courses are sometimes elected to complete the student's prerequisites or to provide essential training in an allied field. One such course, accompanied by additional work, may, with the approval of the major department, be included in the M.A. program. Advanced undergraduate courses and certain second-year and elective courses are included with the graduate courses in this Calendar. A full list of undergraduate courses is available in the Calendar of Undergraduate Courses.

*Journal Clubs and Colloquia.* In many departments the instructors and graduate students meet from time to time to discuss current research or to review recent publications in their field of study. Students will be notified by their respective departments of arrangements for their Colloquia or Journal Clubs.

*Prerequisites.* The prerequisites for graduate courses are established by the various departments. In special cases, with the approval of the department concerned, work in related subjects may be accepted in lieu of the stated prerequisites.

*Grading.* Two grades are given for graduate work, Satisfactory and Unsatisfactory. Occasionally extensions may be given for the completion of work. However, there will be no extension beyond November 1st of the year following that in which the work was due. After November 1st the work will be graded Unsatisfactory or the term Incomplete will remain permanently on the record.

## RECIPROCITY WITH THE UNIVERSITY OF PENNSYLVANIA

Courses at the University of Pennsylvania are available to graduate students at Bryn Mawr College. All full-time students and such part-time students as intend to become candidates for degrees are eligible. The number of courses which may be taken at the University is limited to the equivalent of one unit per year. Under the Reciprocal Plan the procedure for registration and payment of tuition fees is the same as for students enrolled wholly at Bryn Mawr. The University charges a general fee of \$2.50 for the use of the Library, a \$5.00 library deposit, which is refundable, and fees for lateness. Students who plan to take a course at the University should complete their Bryn Mawr registration and obtain their letters of introduction promptly.

## SUMMER WORK

Bryn Mawr has no summer session. Occasionally, however, arrangements can be made for graduate students to continue their researches during the summer under the supervision of members of the faculty. Such arrangements are made at the invitation of the instructors. The amount of credit for the work and the tuition fee to be charged depend upon the particular circumstances.

# The Degrees of Doctor of Philosophy, Master of Arts, and Master of Social Service

**B**RYN MAWR COLLEGE awards the degrees of Doctor of Philosophy, Master of Arts, and Master of Social Service.

## THE DEGREE OF DOCTOR OF PHILOSOPHY

The course of study for the degree of Doctor of Philosophy at Bryn Mawr College is designed to prepare the candidate for a professional career as a scholar. The course offers the student the opportunity to acquire a broad general background in chosen fields of knowledge and practice in research in these fields. The degree is awarded after the student's general knowledge and ability in research have been tested by examination and by a dissertation.

The candidate for the Ph.D. degree should have ability of high order, intellectual curiosity and critical judgment, independence, a broad general education, fundamental training in the major and allied fields and the determination needed to carry through an exacting program.

The regulations for the Ph.D. degree are described in detail in a special pamphlet which will be given to applicants for candidacy. The general requirements, to which should be added those of the various departments, are:

1. An undergraduate preparation in major and allied fields which is satisfactory to the departments concerned and to the Graduate Committee.

2. A course of study requiring a minimum of three full years of work beyond the A.B. degree in major and allied fields; for graduates of other colleges, two of these years must be spent in the Graduate School of Bryn Mawr College but for candidates who have held academic appointments at Bryn Mawr College

and occasionally for others this requirement may be reduced by the Graduate Committee; for candidates who hold the A.B. degree from Bryn Mawr College, one full year of graduate work at Bryn Mawr is required. Although there are no formal course requirements for the Ph.D. degree, students will ordinarily find it advisable to complete six or seven units of graduate work.

3. The recommendation of the student as a candidate by the director of the dissertation and the major department and the acceptance of the recommendation by the Graduate Committee. Application for candidacy, on a form to be obtained at the Graduate Office, may be made as early as the spring of the student's first year in the Graduate School.

4. A reading knowledge of two modern languages, tested by written examinations in the translation of texts in the field of the major subject.\* These examinations must be passed before the student takes the Preliminary Examination. Students who have passed the general type of language examination at Bryn Mawr within the previous five years may meet this requirement by an informal test administered by the Department.

5. A satisfactory Preliminary Examination in the candidate's major and allied fields. This examination, consisting of several written examinations, and, at the option of the department, an oral examination, is intended to test the candidate's general knowledge of the fields rather than familiarity with particular courses.

6. The preparation of a dissertation judged to be a contribution worthy of publication. The dissertation must represent independent investigation in the field covered by the major subject. It must contain new material, results or interpretations.

7. A satisfactory Final Oral Examination in the special field of the major subject in which the dissertation has been written.

8. The publication of the dissertation in whole or in part. Microfilming is accepted as a method of publication.

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\* See the statements under the Departments for the language requirements. For the Ph.D. in Social Work only one modern language is required.

Students whose mother tongue is not English may, with the approval of their department, offer English as one of the modern languages. (They may not offer their own language.)

## THE DEGREE OF MASTER OF ARTS

The degree represents the completion of a coordinated program of graduate work which, for a well-prepared candidate, requires a minimum of a full year of graduate study. Work for the degree may be spread over several academic years which need not be in succession but must be included in a five-year period. Only courses taken at Bryn Mawr College are credited for the degree.

*Prerequisites.* The prerequisite for the M.A. degree is an A.B. degree or its equivalent from an American college of recognized standing or a degree or certificate of the same standard from a foreign university. The preparation must include such undergraduate work in the candidate's major subject and allied fields as various departments shall require.

*Application.* The candidate applies for the degree in the department of the major work, must receive the endorsement of the department for the program of work and must be accepted by the Graduate Committee. The application and the program endorsed by the major department must be submitted to the Dean of the Graduate School not later than December first of the academic year in which the candidate wishes to take the degree. Application forms are supplied by the Graduate Office.

*Language Requirement.* A reading knowledge of two modern languages is in general required of all candidates.\* Students in Economics, Education and Sociology may offer Statistics instead of the second language. In Psychology, Statistics is required and the language requirement is therefore reduced to one. Candidates whose major work is in a modern language must offer a reading knowledge of two other languages.

Holders of the Bryn Mawr A.B. degree who have as undergraduates passed examinations in the languages required for the M.A. degree by their major departments are not required to be re-examined unless five years have elapsed between the time when the A.B. language examination was passed and the end of their first semester in the Graduate School.

Students whose mother tongue is not English may offer Eng-

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\* See the statements under the Departments for the departmental language requirements.

lish for one of these languages. (They may not offer their own language.)\* The requirement in English shall be met by certificates from the students' major departments that their English is adequate or by a special examination given by the department not later than November in the academic year in which the degree is to be taken. This special regulation for foreign candidates does not prevent a department from refusing to admit students to any seminar for which their language proficiency is inadequate.

The language requirement is met by passing a written examination set by the major department in reading, at sight and with a dictionary, technical material in the candidate's major field.

Examinations in languages, and in the techniques which in certain departments may be substituted for one language, will be held three times each year, in October, January and April. At least one of the examinations must be taken not later than the October period of the academic year in which the degree is to be received. All departments except Biology, Classical Archaeology, Mathematics and Spanish require that at least one shall be passed by that time. No candidate may receive the degree in any academic year unless she has passed both examinations by the January examination period, or, in special cases approved by the major department and the Graduate Committee, has been permitted to postpone passing one until the April examination period.

Students are expected to prepare for these examinations before entering upon the work for the M.A. degree and are strongly urged to take both examinations in October. *Students who do not meet the two requirements in languages and techniques in October may find it impossible to carry a full program and complete the requirements for the degree in one year.*

*Program of Work.* The candidate's program must include three units of work: (1) one seminar or graduate course; (2) a second seminar or supervised unit of graduate work; (3) a third seminar or an undergraduate course recommended by the major department. If undergraduate courses are included in this last

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\* Foreign students in the Department of Education may offer Statistics and English; in Psychology, Statistics being obligatory, the language requirement may be satisfied by English alone.

unit, they must be supplemented by organized individual work. Under certain circumstances advanced undergraduate courses in science can be counted as seminars, subject to the approval of the department and the Dean of the Graduate School. Candidates may take their three units of work in one major department or two in a major department and one in an allied field. Candidates whose major department conducts a Journal Club or Colloquium are expected to include it in their registration.

*Special Field.* The candidate shall, in consultation with the major department, select a special field for the M.A. paper and the Final Examination. It is expected that this field will normally relate to one of the seminars or units of graduate work in the candidate's program.

*Final Requirements.*

1. *Courses.* Before the Final Examination period, candidates must have completed to the satisfaction of their instructors the courses registered for the degree. No candidate will be admitted to the Final Examination if one of these courses is reported as unsatisfactory.

2. *Paper in the Special Field of the Student's Major Subject.* Every candidate must present a paper in the special field. The paper may take the form of a report on a special piece of investigation carried on throughout the year or during a definite period, or of a problem which is assigned to be completed during a specified limit of time.

3. *An Examination.* Every candidate must pass a Final Examination which shall test her ability to place the special field in the general background of the major subject.

The Final Examination may not be taken until

- (1) the language requirements have been met;
- (2) the three units have been reported as satisfactory;
- (3) the paper in the special field has been accepted.



## THE DEGREE OF MASTER OF SOCIAL SERVICE

The Department of Social Work and Social Research provides a two-year program of study leading to the degree of Master of Social Service.\* The program for the professional degree of M.S.S. is designed to prepare men and women for Social Casework, Community Organization and Social Research. Two academic years of full-time study are required. The degree represents the completion of a coordinated program of courses and field instruction. In the program in social casework, provision is made for concentration in the following specific fields: Child Welfare, Family Welfare, Medical and Psychiatric Social Work.

*Prerequisites.* The prerequisite for the M.S.S. degree is an A.B. degree or its equivalent from an American college of recognized standing, or a degree or certificate of the same standard from a foreign university. An undergraduate major in one of the social sciences is usually required, although in exceptional cases this requirement is waived. There are no language requirements for the M.S.S. degree.

*Program of Work.* The basic first-year program is similar for all students except that the student selects either casework or group work as the principal course in social work methods. The first-year courses are:

Introduction to the Social Services

Normal Growth and Behavior

Pathology in Growth and Behavior

Community Organization I

Social Group Work I

Social Research I

Social Casework I

Social Casework II or Social Group Work II

Field Instruction throughout the two semesters in either Social Casework, Social Group Work or Community Organization.

The courses in the second year are in part determined by the field of concentration of the student, that is, social casework,

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\* The M.A. degree is not offered in this Department.

community organization or social research. The courses required of all students include:

- The Public Social Services
- Social Issues and Social Policy
- Thesis Seminar.

Other second-year courses will be selected from the following:

- Patterns of Behavior
- Social Administration
- Social Foundations of Behavior (Elective)
- Community Organization II and III
- Social Research II and III
- Social Casework III and IV
- Field Instruction during each semester in Community Organization, Research or Social Casework.

*Requirements for Degree.* Candidates for the M.S.S. degree must have completed a minimum of six units, including designated field work; they must prepare a Master's thesis and pass a Final Examination which tests their ability to place their special fields in the general background of social work.

# Residence and Fees

## THE GRADUATE CENTER

**R**ESIDENCE for forty-five women graduate students is provided in the Graduate Center which lies at the north end of the campus, about an eight-minute walk from the Library. There is a separate room for each student; meals and health service are included in the residence charge.

Besides housing forty-five women students the Graduate Center is the headquarters of the Graduate Club, the nucleus of the social life of the Graduate School. The Center's public rooms—a large living room and the Manning-Smith recreation room—are available to all members of the Club. The dining room, which seats sixty, is open to non-resident students living outside the Center who wish to lunch or dine there. For the residents there are smoking rooms and tea pantries. The bedrooms are fully furnished except for curtains and rugs. Bed linen, including blankets, is provided but students should bring their own towels. Because of College fire regulations, smoking is not permitted in the bedrooms.

Application for a room should be made as early as possible. A room contract, which will be sent upon request, must be signed and returned with a deposit of ten dollars to the Dean of the Graduate School. The amount of the deposit will be deducted from the residence fee; it will not be refunded under any circumstances.

A student who has reserved a room in the Graduate Center will be held responsible for the residence charge unless she sends notice of withdrawal, in writing, to the Dean of the Graduate School before September first. Appropriate reduction or remission of the residence fee will be made if the College is able to reassign the room to another student not already accommodated in the Center. The student herself is not entitled to dispose of the room she leaves vacant. Appropriate reduction or remission will be made for that portion of the residence fee which represents the cost of food. A student in residence who is absent from

the College for six weeks or more because of illness will also receive a proportionate reduction for food.

The regular charge for residence (room, board and health service) for graduate students is \$1000 a year, payable one half early in the first semester and the other half early in the second semester.

Residence in the Graduate Center is for the academic year only—from the opening of college in the fall until Commencement Day. All college residence halls are closed during the Christmas vacation but accommodations in the neighborhood can usually be secured by graduate students who wish to continue their work. During the spring vacation one hall of residence is kept open and graduate students may occupy rooms in it at a fixed rate. Baggage will not be accepted at the College before September 15. It should be sent prepaid, addressed to the Graduate Center.

The College reserves the right to exclude at any time students whose academic standing is unsatisfactory or whose conduct renders them undesirable members of the college community. In such cases fees due or paid in advance will not be refunded or remitted in whole or in part; fellowships and scholarships will be cancelled.

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

### FEEES

The tuition fee for graduate students is \$1000 a year, payable one half early in the first semester and the other half early in the second semester.

For students registered for part-time work the fee for each course, seminar, or unit of supervised work, is \$350 a year or \$175 a semester.

Fees for auditors are the same as for students registered in courses for credit.

All students taking courses which require field work in the Department of Social Work are charged a fee of \$10 a semester for each such course taken during the academic year and a fee of \$10 for summer field work. This fee covers a part of the expenses of field supervision. In addition students are required to

meet their travelling and incidental expenses while working in the field during the academic year and vacations.

Students taking undergraduate courses in the sciences (not for graduate credit) are charged laboratory fees at \$10 per course per semester, or \$25 per semester for three courses.

Students whose fees are not paid before November first in the first semester and before March first in the second will not be permitted to continue in residence or to attend their classes. No reduction of the tuition fee will be made on account of absence or dismissal or for any other reason.

The graduation fee for Doctors of Philosophy, Masters of Arts, and Masters of Social Service is \$20.00.

The Office of the Recorder will supply on request one transcript of the record of each graduate student free of charge. For additional transcripts a charge of \$1.00 each will be made.

#### SUMMARY OF EXPENSES FOR THE ACADEMIC YEAR

##### Regular

Tuition Fee .....	\$1000
Residence (including health service) .....	1000

##### Contingent

Dispensary Fee (for non-resident students) .....	15
Social Work Field Work Fee .....	20
Graduation Fee .....	20
Expenses, Christmas and spring vacations, commuting .....	variable
Laboratory Fees for undergraduate courses (not for graduate credit), per course per year .....	20

#### GRADUATE CLUB

All graduate students residing in the Center are members of the Graduate Club and non-resident students, men or women, may become members. The organization of the life of the graduate students in all matters not purely academic or affecting hall management is in the hands of the Club. The President of the Graduate Club is a member of the College Council, a non-legislative body which meets periodically to discuss matters concerning the College as a whole.

# Fellowships and Scholarships

THE COLLEGE awards, on the basis of academic excellence, about sixty graduate scholarships and fellowships to women who are graduates of accredited colleges or universities. Some awards are open to men on the same basis. The various types of awards are described below.

## APPLICATION

Applications for fellowships and scholarships should be made to the Dean of the Graduate School and must be filed complete not later than March first preceding the academic year for which they are desired. The documents are the same as for admission. Blanks are forwarded to all applicants by the Graduate Office. Awards are announced each year on April first and recipients should signify their acceptance or refusal by April fifteenth. Original papers and photographs, sent by applicants in support of their applications, will be returned only if postage is enclosed for that purpose, or specific instructions are given for return by express collect. Testimonials and letters from professors and instructors will not be returned.

Completed applications for scholarships for foreign women must be received not later than February first. The applicants will be informed of the results early in March.

## FELLOWSHIPS

Twenty-three Fellowships, value \$2300 each, are offered annually in Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, Educational Psychology, English, Geology, German, Greek, History, History of Art, Latin, Mathematics, Mediaeval Studies (the Howard Lehman Goodhart Fellowship), Music, Philosophy, Physics, Political Science (the Justus C. Strawbridge Fellowship), Psychology, Romance Languages (two fellowships), Russian, Social Work (the Carola Woerishoffer Memorial Fellowship), and Sociology and Anthropology. They are awarded on the basis of merit and are open to American and Canadian women who are graduates of colleges of good standing, and who have completed at least one full year of graduate work.

*The Katharine Elizabeth McBride Fellowship.* In the 75th Anniversary Year the Alumnae of the College established a fund for a graduate Fellowship in honor of Katharine Elizabeth McBride, President of the College. The Fellowship, open to students in any department, will be awarded from the interest on this fund.

*The Margaret Gilman Fund.* An additional Fellowship or Scholarship in French, open to both men and women, is awarded from the interest on this fund which was established in 1958 by bequest of the late Margaret Gilman, Professor of French at Bryn Mawr College.

*The Theodore N. Ely Fund.* An additional Fellowship or Scholarship in Art or Archaeology is awarded from the interest on this fund which was established in 1959 by bequest of Katrina Ely Tiffany, Class of 1897.

*The S. Maude Kaemmerling Scholarship* was established in 1959 by a gift from the estate of S. Maude Kaemmerling. The income on this fund is to be used for graduate Scholarships and Fellowships.

#### *Fellows by Courtesy*

Fellows who continue their studies at the College after the expiration of their fellowships may, by a vote of the Directors, receive the rank of Fellow by Courtesy.

### GRADUATE SCHOLARSHIPS

Twenty-one Graduate Scholarships, value \$1600 each, are offered annually to women for work in any department of the Graduate School. Holders of these scholarships in their first year at Bryn Mawr are required to live at the Graduate Center. Others may elect to do so. The stipend covers tuition and part of the residence charges. Scholars who have had a full year at Bryn Mawr may live off campus. Tuition plus Dispensary fees will be deducted from the stipend and the balance paid the student in November and March.

The College also offers several Graduate Scholarships, value \$1600 each, to men. Tuition plus Dispensary fees will be deducted from the stipend and the balance paid the student in November and March. There is no hall of residence for men.

## TUITION SCHOLARSHIPS

Eight scholarships providing free tuition are available to men and women whose homes are in the neighborhood.

## SCHOLARSHIPS FOR FOREIGN WOMEN

Ten scholarships are especially designated for foreign women who have excelled in their university studies. Applicants must have had three or four years of university training. Each scholarship carries a stipend of \$2000 which covers full tuition and board and lodging in the Graduate Center during the academic year. (Vacations are not included and students will need to provide additional funds for these and for other non-college expenses.) A student who holds a scholarship for a second year may live off campus if she prefers. Scholarship holders are expected to carry a full program of graduate work and to attend regularly the courses for which they are registered. At times an advanced undergraduate course may meet the student's needs better than a graduate seminar; in that case she will make extra contributions in order to bring the work to the graduate level. Most of the formal work, however, is given in seminars. These are best described as small discussion groups in which the students, as well as the instructor, actively participate. It is essential, therefore, that the student be able not only to read and write English, but to understand it and speak it fluently. For a full statement of the graduate program and requirements, reference should be made to the preceding pages and to the departmental announcements.

*The Marguerite N. Farley Scholarships for Foreign Women.* Five foreign scholarships, of the value of \$2000, are offered to women from any country, outside the United States and Canada.

*A Special British Scholarship*, of the value of \$2000, is reserved for a candidate from Great Britain sponsored by The English-Speaking Union.

*Special Foreign Scholarships for French, German, Italian and Spanish*, of \$2100 each, have been established for students whose languages form part of the Bryn Mawr curriculum. Holders of these scholarships are asked to devote four or five hours a week to supervised teaching or other assistance in the appropriate



language department. The Special Scholarship for French has been named in memory of Marcelle Pardé who was a member of the French Department of Bryn Mawr College between 1919 and 1929. The Special Scholarship for Spanish has been named in memory of Miguel Catalan, distinguished Spanish physicist and friend of Bryn Mawr.

#### SCHOLARSHIPS AND FELLOWSHIPS UNDER THE PLAN FOR THE COORDINATION OF THE SCIENCES

The several departments of the natural sciences and mathematics administer a fund for the Coordination of the Sciences, given to the College by the Carnegie Corporation of New York. Its purpose is to encourage and facilitate teaching and research in overlapping fields of science, such as biochemistry, biophysics, geochemistry, geophysics, psychophysics.

Usually three scholarships of the value of \$1600 are offered to qualified students who have had undergraduate training in two or more of the natural sciences and who wish to continue study in some borderline field. Scholarships are, however, also awarded to those students who plan to specialize in only one science, but feel the need for broadening their knowledge in some related science.

Since many students do not have the time to obtain an adequate preparation in two or more sciences during their undergraduate training, provision is also made for a so-called "Fifth Year." Scholarships are offered to those students who want to broaden their undergraduate preparation in several sciences. Courses taken during the Fifth Year will usually consist of undergraduate courses, and such a program, therefore, does not lead to a higher degree in the first year.

Two fellowships of the value of \$2300 each in the same fields are also offered to candidates who, in addition to undergraduate training, have had at least a year of graduate work in science.

These Scholars and Fellows will pay the regular tuition of \$1000 a year. For residence in the Graduate Center which is allowed if the candidate so desires and if room is available, an additional \$1000 will be charged.

Occasionally a post-doctoral Research Fellowship is offered to a candidate who wishes to work in a borderline field, as out-

lined above, or one who, while working in one science, wants to utilize methods or tools of another science for a specific research problem.

The scholarships and fellowships under the Plan for the Coordination of the Sciences are open to men as well as women, but among candidates of equal ability preference is given to women.

*The Helen Schaeffer Huff Memorial Research Fellowship.* This fellowship is awarded for a year of research work in Physics or Chemistry at Bryn Mawr College. Candidates must be women who have demonstrated their ability for research. If other qualifications are equal among a number of candidates, preference will be given to a woman whose field of research overlaps the fields of Chemistry and Physics. This fellowship is normally awarded to a post-doctoral candidate to enable her to continue her research program. In such cases the stipend will be \$3200. In exceptional cases, candidates engaged in important research who have not completed the work for the doctorate will be considered. For such students the stipend will be less, the amount to be determined on the basis of the candidate's qualifications.

The Helen Schaeffer Huff Memorial Research Fellow has no duties except those connected with her own research, but she may arrange with the department in which she is working to do a small amount of teaching if she so desires. The holder of this fellowship may, if she wishes, live in the Graduate Center.

#### SOCIAL WORK AND SOCIAL RESEARCH

*The Carola Woerishoffer Fellowship in Social Work and Social Research*, of \$2300, is offered annually to a student in Social Work.

*The Carola Woerishoffer Scholarship in Social Work and Social Research*, of \$1600, is offered annually to a student in the Department of Social Work and Social Research.

*Agency Fellowships and Scholarships.* A number of scholarships ranging in value from \$500 to \$2400 are offered by various agencies in Philadelphia and vicinity to second-year graduate students, men and women, who wish to be candidates for the degree of Master of Social Service. These agency scholarships and fellowships frequently call for field work placement in the agency giving the grant, and in some cases require an agree-

ment relative to employment for one year following the holding of a grant.

*Federal Stipends.* The United States Public Health Service offers traineeships of \$1800 for first-year students, and \$2000 for second-year students, both men and women. The holders of such stipends must have career objectives in psychiatric social work.

The Office of Vocational Rehabilitation offers traineeships of \$1800 and \$2000 for first- and second-year students respectively. Holders of such stipends must have career objectives in rehabilitation.

Traineeships of \$2400 for the third year and \$3600 for the fourth year of study are also available from the United States Public Health Service to advanced students who meet certain requirements and are beginning work for the Ph.D. Application to the Department for such traineeships is necessary by November first of the year preceding the proposed year of study.

Both local agency stipends and Federal traineeships are awarded to the student by the Department.

*The Alumni Association of the Department of Social Work and Social Research* usually provides a tuition scholarship open to either first- or second-year students.

*Susan M. Kingsbury Research Assistantship*, a research assistantship of the value of \$1400 with remission of tuition, will be granted to an advanced student, preferably a candidate for the degree of Doctor of Philosophy, who from either training or experience has knowledge of methods and techniques in social research. The holder of the Assistantship will give half time to the research of the Department, and half time to study and is not permitted to hold any other paid position.

#### TRAVELLING FELLOWSHIPS

*The Fanny Bullock Workman Fellowship*, value \$2000, for a year of study or research abroad or in special cases in the United States, was established in 1927 by bequest of Fanny Bullock Workman and by gift of her husband, Dr. W. Hunter Workman. It is awarded to a candidate for the degree of Doctor of Philosophy at Bryn Mawr College who could not have the advantages of such a year without assistance. At the discretion of the Faculty, the fellowship for any one year may be divided between two

students, or the same student may hold the fellowship for more than one year.

*The Anna Ottendorfer Memorial Research Fellowship* in Teutonic Philology and German Language and Literature, founded in 1907 by Mrs. Anna Woerishoffer of New York City in memory of her mother, is to be applied to the expenses of study and residence for one year at some German university. It is awarded annually to a candidate who has completed at least one year of graduate study at Bryn Mawr College, on the basis of evidence regarding her ability to conduct independent investigations in the fields of Teutonic Philology or German Literature. The choice of a university is determined by the holder's preference, subject to the approval of the Faculty.

*The Ella Riegel Fellowship or Scholarship* in Classical Archaeology was founded in 1937 by bequest of Ella Riegel. It is awarded on the recommendation of the Department of Classical and Near Eastern Archaeology and only to advanced students in this subject. It is given for study abroad but may, at the discretion of the Department, be used at Bryn Mawr College.

#### DUTIES OF FELLOWS AND SCHOLARS

All holders of fellowships and scholarships are required to carry a full program of graduate work. Fellows and Scholars assist occasionally in the conduct of examinations. Holders of fellowships may be asked to give as much as an hour and a half a week to special work for their departments, and are not permitted to accept any other appointments. Holders of scholarships may, with the approval of the Dean of the Graduate School, make their own arrangements to do a limited amount of paid work. Each Travelling Fellow is asked to present a written report of her work during her year on the fellowship. This report should be sent about the first of March to the Dean of the Graduate School for transmittal to the student's department.

#### GRADUATE PRIZE

*The Susan B. Anthony Memorial Prize*, commemorating the great work of Susan B. Anthony for women, was founded by her friend, Anna Howard Shaw, and her niece, Lucy E. Anthony. It is offered from time to time to a graduate student at Bryn Mawr College who has published or submitted in final form for publication the best study dealing with the industrial, social, economic or political position of women. The award is made by

the Committee of which the President of the College is chairman. The value of the prize is determined by funds available from the income of the gift to the College.

#### EMMY NOETHER FELLOWSHIP IN MATHEMATICS

*The Emmy Noether Fellowship* was founded by gifts from many donors in memory of Emmy Noether who came to Bryn Mawr College from Germany in 1933 and who died April 14, 1935. It is open to women in the United States and in foreign countries who are advanced graduate students of Mathematics. It is awarded by the Department of Mathematics in Bryn Mawr College, and may be used, subject to the approval of the Department, at any institution in the United States or in a foreign country.

#### GRANTS-IN-AID

Contributions to the Alumnae Fund by former graduate students have placed at the disposal of the Graduate Scholarships Committee a small fund from which grants-in-aid may be made. These grants, not to exceed \$300, are given on the basis of need to holders of scholarships to help them meet college expenses. Application forms may be obtained from the Graduate Office; they should be submitted by April 15th.

#### GRADUATE ASSISTANTSHIPS

*Teaching Assistantships* are available to graduate students in the Departments of Biology, Chemistry, Education, Geology, Physics, Psychology and Social Work. The positions carry salaries of \$1700-\$1800 for half-time work (\$1150-\$1200 for one-third) and include free tuition for half to two-thirds time graduate work. They provide teaching and laboratory experience outside the classroom, mainly in the undergraduate laboratories.

*Research Assistantships* are available in Chemistry, Physics, Psychology and Social Work. These are usually for half-time work and provide half-time free tuition in addition to salaries of \$1700-\$1800. A few of these positions, in Psychology and Social Work, offer higher salaries.

*Other Assistantships*, usually for one-third time work and paying \$1150-\$1200, are offered in the Departments of Economics, Education, History, History of Art, Mathematics, Philosophy, Political Science, and Sociology and Anthropology. The duties of assistants differ in different Departments. In all Departments, the assistant is entitled to carry on graduate study for which tuition is remitted.

# Loan Funds

*The Students' Loan Fund of the Alumnae Association of Bryn Mawr College* was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

The committee in administering this money follows a definite policy, designed to serve the best interests of the students concerned. Loans may be used for any purpose approved by the committee, who strongly recommend the borrowing of small sums to relieve undue financial pressure, or to meet special emergencies. As a rule, money is not loaned to students in their first semester of graduate work. Not more than \$500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed \$1500.

The terms under which money is loaned are as liberal as is consistent with business-like principles. While the student is in College no interest is charged; after the student leaves College the interest rate is two per cent. The entire principal must be repaid within five years from the time the student leaves College at the rate of twenty per cent each year. Students who wish to borrow from the Loan Fund may obtain application blanks for this purpose from the Alumnae Office, The Deanery, Bryn Mawr, Pennsylvania.

*The Mary Hill Swope Loan Fund* was established June 1, 1945 by a gift of Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:

To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

1. The following order of preference shall be observed in awarding such loans:
  - a. To students coming from New Jersey.
  - b. To students coming from Missouri.
  - c. To students coming from any other location who have had not less than one year of residence at the College.

2. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn Mawr College, or by a Committee appointed by her from time to time.
3. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.
4. These loans shall be used primarily to enable the exceptional student to continue her studies which otherwise would be prevented through lack of means.
5. In the awarding of the loans, the recipient should understand that if in after years she is in a position to do so, she is to repay to the income account of the Loan Fund the amount so loaned to her, with or without interest. It is to be understood that this is entirely a moral obligation upon the recipient.

#### MEMORIAL LOAN FUNDS

*The Bertha Goldstein Memorial Loan Fund, the Rachel Pflaum Memorial Loan Fund and the Ethel Rupert Loan Fund* are revolving funds from which, upon recommendation of the Department of Social Work and Social Research, a limited number of loans may be made to graduate students in that Department. Loans are made without interest and must be repaid within one year after completion of study at Bryn Mawr.

### The Bureau of Recommendations

The College conducts a Bureau of Recommendations for alumnae, students, and former students. This Bureau offers an employment service for permanent, temporary, and part-time positions; and a vocational service for the student body, which includes vocational tests and assistance in choosing a vocation. It also acts as a clearing house for letters of recommendation for those who have registered with the Bureau. These letters will be sent, upon request, to prospective employers and other agencies.

Students of foreign citizenship are advised that government regulations severely limit their employment.

# The Library

THE M. CAREY THOMAS LIBRARY now contains over a quarter of a million volumes. The Library has a good working collection in all fields in which graduate study is offered. The collection includes files and current numbers of about one thousand periodicals published in the United States and abroad. For the use of graduate students there are twelve seminar rooms and, in addition, a limited number of carrels in the stacks. The scientific libraries are described on page 50.

The open shelf system provides the maximum of free access to the stacks so that almost all books except those in the Rare Book Rooms are directly available to the students. The Reference Room and Periodical Room provide ready access to standard works of reference and current periodicals. There is a large reading room with individual desks.

Provision is made in the Quita Woodward Memorial Room for books for pleasure or recreational reading. This collection, numbering about two thousand volumes, includes books in literature, art, religion, and current affairs as well as many of the classics.

In the two Rare Book Rooms unusual bibliographical items are shelved and displayed: early printed books, manuscripts, first editions, fine press books, and association copies. Exhibitions of the Library's own material and material lent by friends of the Library are displayed here at intervals during the academic year. Here also are incunabula numbering over nine hundred volumes, the gift of Howard L. Goodhart. This collection, known as the Marjorie Walter Goodhart Mediaeval Library and consisting mainly of philosophical and theological works printed in the 15th century, is outstanding among college library collections.

Other facilities available to graduate students are the rich resources in the libraries of the Philadelphia area. Through the services of the Union Library Catalogue at the University of Pennsylvania volumes in over 300 libraries within the area may be easily located. The Philadelphia Bibliographical Center and Union Library Catalogue has recorded over 3,500,000 titles in



the region by which research workers are aided in bibliographical problems outside the scope of any one library. Through this channel the great collections of the University of Pennsylvania, the Free Library of Philadelphia, the Historical Society of Pennsylvania as well as the Library Company of Philadelphia, the American Philosophical Society, the Franklin Institute, the Academy of Natural Sciences, the College of Physicians, Swarthmore College and Temple University are made available. Graduate students who wish to use other libraries for purposes of reference may secure letters of introduction from the Bryn Mawr librarian.

Three-college cooperation also augments the facilities of the M. Carey Thomas Library. In the main catalogue are filed author cards for books in the collection of Haverford College, facilitating the use of books in its library. Catalogue cards representing the authors of books pertaining to Russia and significant material collateral to the study of that country are filed for Swarthmore College as well as for Haverford.

#### ART MUSEUM AND SLIDE COLLECTION

The collection of slides used in the Departments of Classical and Near Eastern Archaeology and History of Art, includes some 40,000 items, representing all fields of Western and Oriental art from prehistoric times to the present. It is supplemented by a collection of 35,000 photographs and color reproductions.

A small but valuable group of original works of art, available for study, include Greek and Roman vases, ancient coins, sculpture, Oriental pottery and scrolls, prints, and modern American and European paintings. The Ella Riegel Museum of Classical Archaeology contains the Densmore Curtis Collection presented by Clarissa Dryden, part of the Hoppin Collection, the Elizabeth Washburn King Collection of Classical Greek coins, and the Aline Abaecherli Boyce Collection of Roman Republican silver coins, as well as various gifts from friends of the College. For Far Eastern study the Chapin Collection of books, paintings, calligraphy, textiles, and ceramics includes material from Korea as well as from China and Japan. Western art is variously represented by several small collections, including the Howard L. Gray Collection of Modern Prints and the Neuberger Collection of Contemporary American Paintings.

# Laboratories

THE natural science departments occupy three buildings. Mathematics, Physics and Psychology are in Dalton Hall, the original science building opened in 1893 and remodeled in 1939 and again in 1958. The Science Center contains the Marion Edwards Park building for Chemistry and Geology and a new building completed in 1958, for Biology. A proposed building for Physics and Mathematics will bring five of the departments together.

In all three buildings there are large laboratories and lecture rooms for undergraduate students and smaller seminar rooms and laboratories for graduate students. In addition to the usual equipment, the science departments have special apparatus and instruments needed in particular research projects by faculty and graduate students and acquired, in part, through the Plan for the Coordination of the Sciences and through research grants made to individual members of the faculty by government and other agencies.

In Dalton Hall, there is a machine shop with an expert machinist in charge and a student workshop available to graduate students. Several rooms in the Biology Building were especially designed for work with radioactive materials, for microphotography and for glass blowing.

Each science department has its own well-stocked library, which includes the appropriate scientific journals. In addition, the Department of Geology has over 25,000 maps, on deposit from the U. S. Army Map Service. The Department's large collection of minerals has been greatly enhanced recently by the gift from George and Henry Vaux of the famous Vaux collection.

# Health

**ALL GRADUATE** students, whether resident or non-resident, must file a physician's certificate stating that they have been vaccinated against smallpox during the year before entrance to the Graduate School and exhibited a typical or immune reaction to this vaccination. Students who do not have this certificate will be vaccinated at the time of their entrance physical examinations and charged a fee of one dollar. Non-residents will not be permitted to register without this certificate. There is no exception to this rule.

Every entering resident graduate student is required to file at the office of the Dean of the Graduate School, on a blank supplied by that office, a report of a recent medical examination, filled in and signed by a physician.

Resident students must present on a separate blank a statement of immunization against tetanus by toxoid, evidence of a negative Schick test, or immunization against diphtheria, and a Mantoux test within one year of entrance. If the Mantoux test is reported positive a flat chest X-ray is required. If these have not been done by the time the student arrives in Bryn Mawr, these tests will be done at the time of the initial physical examination at a fee of one dollar for each test and the chest X-ray will be taken at Bryn Mawr Hospital at the student's expense.

Any resident graduate student who has a positive Mantoux test is required to have a yearly flat chest plate beginning the year after admission to the Graduate Center. The student must pay for this.

Every resident graduate student must file a certificate stating that her eyes have been examined by an ophthalmologist within six months before entrance to the Graduate School. Failure to comply with the above rule entails an examination by one of the college consultants for which the student will be charged as a private patient by the ophthalmologist making the examination.

Every entering resident graduate student is examined by the Physician of the College, with reference to physical development

and general health. Second- and third-year residents whose health records have been approved by the College Physician are not examined. Any graduate student who at the time of the examination or at any time during the year is not in good health is placed on the health supervision list.

The College maintains a modern 22-bed Infirmary staffed by five registered nurses and a secretary-technician. The College Physician is in her office in the Infirmary daily and may be consulted by the students without charge. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College. The fees of the consulting physicians and surgeons and other specialists recommended by the College will be furnished on request. The Infirmary is open when college is in session and in the spring vacation. It is closed Christmas vacation.

The residence charge paid by each resident graduate student entitles her to free consultation with the College Physician and College Psychiatrists and to treatment in the college dispensary. It also entitles her to be cared for in the Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the College Physician during this time and to nursing, provided her illness is not contagious and is not sufficiently serious to require the services of a special nurse. The fee for each day in the Infirmary after the seven-day period is nine dollars. In case of contagious disease special nursing is obligatory and the student must meet this expense.

All resident and non-resident graduate students of Bryn Mawr College are entitled to subscribe to the Students' Reimbursement Plan, which provides for a substantial proportion of hospital care and medical fees. The premium for this insurance is \$15 for a full year starting October 1st.

Non-resident Fellows and Scholars whose homes are not in the neighborhood are required to pay a non-resident dispensary fee of \$15, which entitles them to care and consultations by the College Physicians and Psychiatrists and to dispensary care. Other non-resident students may, if they so desire, pay this fee and receive the same benefits. *Since non-resident students cannot be given bed care in the Infirmary they are urged to take out medical insurance.*

The College reserves the right, if members of the family cannot be reached, to make decisions concerning emergency operations or other matters of health in regard to the students.

# Announcement of Courses

The following is a list of the seminars and graduate courses and of undergraduate courses which can be expanded to count for graduate credit. It is the practice of most departments to vary the graduate courses and seminars from year to year. The announced order may be changed either because of changes in the teaching staff or in order to meet the needs of the students. For a full announcement of undergraduate courses see the Calendar of Undergraduate Courses.

Undergraduate courses in each department are numbered according to the following system:

201, 202, etc. . . . indicate second-year undergraduate courses.

301, 302, etc. . . . indicate advanced undergraduate courses.

“a” . . . . . the letter “a”, following a number, indicates  
a half-course given in the first semester.

“b” . . . . . the letter “b”, following a number, indicates  
a half-course given in the second semester.

“c” . . . . . the letter “c”, following a number, indicates  
a half-course given two hours a week  
throughout the year.

[ ] . . . . . Square brackets enclosing the titles of  
courses indicate that, although the  
courses are regular parts of the program,  
they are not given in the current year.

## Biology

PROFESSORS:	MARY S. GARDINER, PH.D., <i>Chairman</i> L. JOE BERRY, PH.D. ELEANOR A. BLISS, SC.D. JANE M. OPPENHEIMER, PH.D.
ASSOCIATE PROFESSOR:	ROBERT L. CONNER, PH.D.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* Good undergraduate training in Biology, or Zoology or Zoology and Botany, including courses in General and Organic Chemistry. Students whose preparation in Biology or in Chemistry is not considered adequate for admission to seminars will be required to make up the deficiency.

*Major and Allied Subjects.* Candidates for the M.A. and Ph.D. degrees may specialize either in Structural or Functional Biology. Those electing the former are required to take some work in the latter, and vice versa. The work in the subsidiary field of Biology may be counted as allied work; other allied subjects may be chosen from fields in Chemistry and Physics, and in special cases, with the approval of the Graduate Committee, from other related fields.

*Language Requirements.* Candidates for the M.A. and Ph.D. degrees should offer French and German. Other languages may be accepted by special permission of the Department and the Graduate Committee.

*Program and Examination for the M.A.* One full year, or its equivalent, of course work in seminars or advanced undergraduate courses arranged for seminar credit and a written report on a piece of experimental work carried out under the direction of a member of the Department. Qualified students may substitute a unit of supervised research for formal course work. While the work may be completed in one year by full-time students, it may be extended over two or more years and students with incomplete preparation may find such extension necessary. The Final Examination consists of a three-hour written examination covering the areas of study and a forty-five minute oral exami-

nation concentrating particularly on the interpretation and significance of the experimental problem.

*Examinations for the Ph.D.* The Preliminary Examination for the Ph.D. consists of three written examinations of four hours' duration. Two of these will usually be in the major field and one in an allied field. In preparation for them, the candidate will probably elect to take all the seminars offered in the area of special interest and selected seminars or courses in related or allied fields. A large proportion of time will be given to experimental research, the results of which will form the substance of the dissertation. The Final Examination is oral, covering the subject of the student's dissertation in relation to more general biological problems.

#### SEMINARS AND GRADUATE COURSES

All advanced undergraduate courses may be taken for graduate credit, provided that some additional work either in reading or experimentation is arranged with the instructor and completed by the student.

Seminars are offered in the following fields. The topics considered in any year are selected in accordance with the needs and desires of the students enrolled.

##### *Structural Biology*

Miss Gardiner: *Cytology* (offered in 1960-61)

Cell structure and function.

Cytological aspects of normal and abnormal growth.

Histogenesis.

Problems in mitosis and meiosis.

Miss Oppenheimer: *Experimental Embryology* (offered in 1961-62)

Factors controlling growth and differentiation.

Form and function in animal development.

Gastrulation and organogenesis in vertebrates.

Morphogenesis in invertebrates.

##### *Functional Biology*

Mr. Conner: *Biochemistry* (offered in 1960-61)

Selected topics in intermediary metabolism.

Biochemical techniques.

Mr. Berry: *Experimental Physiology* (offered in 1961-62)  
 Kinetics of biological reactions.  
 Mechanisms of defense against infectious diseases.  
 Physiological techniques.  
 Physiology of micro-organisms.

#### *Bacteriology*

Miss Bliss: *Bacteriology* (Semester I, 1960-61)  
 Bacteria and chemotherapeutic agents.

#### ADVANCED UNDERGRADUATE COURSES

- [301. *Theories of Heredity*: Miss Gardiner.]
- 302. *Developmental Physiology*: Miss Oppenheimer.
- 303. *Physiology of Micro-organisms*: Mr. Berry.
- [304. *Micro-anatomy*: Miss Gardiner.]
- [305. *Biochemistry*: Mr. Conner.]

## Chemistry

PROFESSOR:	ERNST BERLINER, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSOR:	GEORGE L. ZIMMERMAN, PH.D.
ASSISTANT PROFESSORS:	FRANK B. MALLORY, PH.D. JOSEPH VARIMBI, PH.D.
LECTURER:	FRANCES BONDHUS BERLINER, PH.D.

*Special Requirements for Graduate Work*  
 (for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate preparation in Chemistry including courses in general inorganic, analytical (qualitative and quantitative), organic and physical chemistry, college Physics and Mathematics (calculus). Students whose undergraduate training in Chemistry is not entirely adequate may be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

*Major and Allied Subjects.* Students may specialize in either Organic or Physical Chemistry. The allied subject for the Ph.D. may be chosen from the fields of Biochemistry, Mathematics,



Physics, Inorganic Geology and a branch of Chemistry different from that of the major subject. Other combinations may be accepted with the approval of the Graduate Committee and on the recommendation of the Department.

*Language Requirements.* Candidates for the M.A. or Ph.D must offer German, and either French or Russian.

*Program and Examination for the M.A.* Candidates will usually offer one seminar in their special field, another seminar or advanced undergraduate course in Chemistry or an allied field and one unit of research. This unit consists of an experimental investigation carried out under the direction of a member of the Department. The Final Examination consists of a four-hour written examination, or a three-hour written and one-hour oral examination.

*Program and Examinations for the Ph.D.* Candidates will normally be expected to devote a large proportion of their time to the execution and interpretation of the experimental work, carried out under the supervision of a member of the Department. They will usually take all seminars offered in their special fields during their stay at Bryn Mawr, in addition to such courses as will give them a broad background in Chemistry. The Preliminary Examination will normally be taken after the experimental work is well advanced. It consists of two four-hour written examinations, one of which is in the major subject and one in the minor subject, and a third, oral examination, which constitutes a defense of a number of research proposals which had been submitted previously by the student. Four such proposals are required, two of which may be related to the student's thesis. For students who offer a minor subject in a department other than Chemistry, equivalent arrangements will be made after consultation with the Department. The Final Examination (oral) is devoted to the subject matter of the student's dissertation.

#### SEMINARS AND GRADUATE COURSES

In order to meet the needs of the students and to offer them as wide a selection of topics as possible, the seminars are arranged in such a way that the same one is usually not repeated

within a three-year period. The topics listed below are given in one-semester seminars, counting one half unit of credit each.

Mr. Berliner: *Organic Chemistry*

Physical Organic Chemistry.

Physical-Organic Aspects of Aromatic Chemistry.

Structure and Physical Properties of Organic Compounds.

Topics in Stereochemistry.

Mrs. Berliner: *Organic Chemistry*

Chemistry of Free Radicals.

Chemistry of Heterocyclic Compounds.

Natural Products.

Mr. Mallory: *Organic Chemistry*

Molecular Orbital Theory.

Organic Photochemistry.

Radical Reactions.

Recent Methods in Organic Synthesis.

Mr. Zimmerman: *Physical Chemistry*

Advanced Topics in Thermodynamics.

Chemical Kinetics.

Introduction to Chemical Physics.

Mathematical Methods in Physical Chemistry.

Quantum Theory.

Mr. Varimbi: *Inorganic and Physical Chemistry*

Inorganic Chemistry.

Statistical Thermodynamics.

Theory of Solutions.

*Biochemistry*: See under Biology.

#### SELECTED UNDERGRADUATE COURSES

301 [a and b]. *Inorganic Chemistry*: Mr. Varimbi.

302 [a and b]. *Advanced Organic Chemistry*: Mr. Berliner and Mr. Mallory.

303 [a and b]. *Advanced Physical Chemistry*: Mr. Zimmerman.

*Colloquium*. All members of the Department and the graduate students, and often outside speakers, meet every week to discuss current research in chemistry.

## Classical and Near Eastern Archaeology

ASSOCIATE PROFESSOR: MACHTELD JOHANNA MELLINK, PH.D.,  
Chairman

ASSISTANT PROFESSOR: ALEXANDER CAMBITOGLU, PH.D.

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PROFESSOR OF

ANTHROPOLOGY: FEDERICA DE LAGUNA, PH.D.

### *Special Requirements for Graduate Work*

(for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate major in Archaeology or at least two courses in Archaeology combined with a major in Greek, Latin or History of Art. It is desirable that all students should have some knowledge of Greek.

*Allied Subjects:* Greek Language and Literature; Latin Language and Literature; an ancient Near Eastern Language and Literature; History of Art; Ancient History; Ancient Numismatics; Anthropology; a science integrated with the work of the major subject.

*Language Requirements.* German and one other modern language for the M.A.; for the Ph.D., a thorough reading knowledge of German and an adequate reading knowledge of a second foreign language.

*Program and Examination for the M.A.* Three units of work in Archaeology or in Archaeology and an allied field. The Final Examination is written, four hours.

*Program and Examinations for the Ph.D.* There is no fixed course of study or time requirement for the degree; but at least one of the preparatory years should be spent at some Mediterranean center such as Athens or Rome, and at least one summer should be devoted to European museums. (The Department has in its award the Riegel Fellowship for study abroad.) Before being permitted to take their preliminary examinations, candidates must satisfy their instructors that they are familiar with the general scope and method of archaeological study, including excavational research; that they know where the original source materials are; and that they can make practical use of bibliographical references. They must also satisfy the Department by

written examination that they have an adequate general reading knowledge of ancient Greek or an ancient Near Eastern language.

The Preliminary Examination consists of four four-hour papers in such special fields as Greek and Roman sculpture, ancient architecture, Greek vase painting, numismatics, topography of classical sites, Aegean prehistory, Near Eastern archaeology, ancient Italy. One of the papers may be chosen from an allied subject; but none may deal with the same specific field as the dissertation, since this will be included in the final oral examination.

*Cooperation with the Department of Classical Archaeology at the University of Pennsylvania.* Attention is drawn to the courses in Classical Archaeology offered by the University of Pennsylvania. Under the Reciprocal Plan, students at Bryn Mawr College may register for a unit of work at the University of Pennsylvania or pursue research at the University Museum. Reference should be made to the University of Pennsylvania Bulletin.

#### SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Miss Mellink:

*Aegean Archaeology.*

*Hittite Art and Archaeology.*

*Oriental Relations of Early Greek Art.*

*The Archaeology of Syria.*

Mr. Cambitoglou:

*Problems in Greek Sculpture.*

*Problems in Greek Vase-Painting.*

*Relations Between Monumental Painting and Vase-Painting in Ancient Greece.*

*Numismatic Aids to the Study of Greek Sculpture.*

#### ADVANCED UNDERGRADUATE AND FREE ELECTIVE COURSES

[202b.\* *Cultural History of Archaeology*: Miss Mellink.]

203a. *Greek Sculpture*: Mr. Cambitoglou.

203b. *Later Greek and Roman Sculpture*: Mr. Cambitoglou.

301a. *Ancient Architecture*: Mr. Cambitoglou.

301b. *Ancient Painting*: Miss Mellink.

[302a. *The Greek Style in Art*: Miss Mellink.]

# Comparative Philology and Linguistics

PROFESSOR OF

ENGLISH PHILOLOGY: STEPHEN JOSEPH HERBEN, LITT.B.,<sup>1</sup>  
PH.D.

PROFESSOR OF

ITALIAN: ANGELINE HELEN LOGRASSO, PH.D.

PROFESSOR OF

SPANISH: FRANCISCO AYALA, *D. en D.*

VISITING PROFESSOR

OF FRENCH: WILLIAM J. ROACH, PH.D.

ASSISTANT PROFESSOR OF

GERMAN: JAMES E. WRIGHT, PH.D.

Comparative Philology may be offered as an allied subject for the Ph.D. but not as a major subject.

*Prerequisites.* The prerequisite is a good undergraduate major in any language or literature. For courses in Philology, see statements under the Departments of English, French, German Italian, Spanish.

## Economics

PROFESSORS:

MILDRED B. NORTHROP, PH.D.,  
*Chairman*

JOSHUA C. HUBBARD, PH.D.

ASSOCIATE PROFESSOR:

MORTON S. BARATZ, PH.D.<sup>2</sup>

VISITING LECTURER:

RICHARD A. SABATINO, PH.D.

LECTURER:

LAURA E. ROMINE, M.A.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate major or minor in Economics with work in related fields such as History and Political Science. Students whose undergraduate training in Economics is not entirely adequate may be required to take such undergraduate

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1. On partial leave semester I, sabbatical leave semester II.

2. On leave of absence for the year 1960-61.

courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

*Allied Subjects.* Most subjects in the fields of the other social sciences, History and Philosophy, are acceptable as allied work. Mathematics, Statistics and Accounting are not only acceptable as allies but an adequate knowledge of one or more of these subjects is necessary to advanced work in Economics.

*Language Requirements.* For the Ph.D. two modern languages. For the M.A. two modern languages or one modern language and advanced statistics.

*Program and Examination for the M.A.* The program consists of three units of work in Economics or two in Economics and one in an allied field. One unit must be in Economic Theory. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

*Program and Examinations for the Ph.D.* The Preliminary Examination consists of four three-hour written examinations, two of which must be in Economic Theory and The History of Economic Thought. The other two fields are selected by the student in consultation with members of the Department. Candidates for the Ph.D. are expected to have an adequate knowledge of Statistics and Mathematics and in some cases of Accounting. The Final Examination (oral) is devoted to the subject matter of the student's dissertation.

#### SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study. Normally the same seminar will not be given two years in succession.

Miss Northrop:

*Comparative Economic Systems.*  
*The Development of Underdeveloped Areas.*  
*The History of Economic Thought.*  
*International Economics.*

Mr. Hubbard:

*Business Cycles and Full Employment.*  
*Contemporary Economic Theory.*  
*Economic Dynamics.*  
*Money and Banking.*

Mr. Baratz:

[*Government and Business.*

*Industrial Structure and Market Behavior.*

*Prices and Price Theory.*]

Mrs. Romine:

*Labor and Management.*

*Wages and Wage Theories.*

#### SELECTED UNDERGRADUATE COURSES

[301a. *History of Economic Thought*: Miss Northrop.]

301b. *Contemporary Economic Thought*: Mr. Hubbard.

302a. *Comparative Economic Systems*: Miss Northrop.

*Journal Club.* Students and members of the faculty in the Department together with those in the Departments of History and Political Science meet four or five times a year to discuss research in progress, or recent books or projects of interest.

## Education and Child Development

PRESIDENT OF THE

COLLEGE:

KATHARINE ELIZABETH MCBRIDE,

PH.D., LL.D., L.H.D., Sc.D.

PROFESSOR AND DIRECTOR,

CHILD STUDY INSTITUTE: RACHEL DUNAWAY COX, PH.D.,

*Chairman*

LECTURER AND DIRECTOR,

THORNE SCHOOL:

SUSAN E. MAXFIELD, M.S.

LECTURER:

ETHEL W. MAW, PH.D.

ASSISTANT:

LELIA BRODERSEN, M.A.

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The program prepares students for college teaching and research in Educational Psychology and Child Development, for child guidance, for school psychology and for teaching in the schools. The training is carried on in a setting of service to public and laboratory schools and the community at large. Classes, seminars and staff conferences provide opportunity for students from several related disciplines to develop competence in the team approach to the children's specialties in education, psychology and guidance agencies. Trends in physical, intellectual

and emotional growth from infancy to maturity are stressed. The chief focus is upon learning in the family and the school.

Work leading to the certificate to teach in the public secondary school is open to students who present some preparation in Psychology and are qualified in a subject matter field. Foundation work for teaching in the elementary school is available. Under the reciprocal plan with the University of Pennsylvania (see page 27) the equivalent of one seminar may be taken at that institution.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate preparation in the liberal arts which must include work in General Psychology. Students whose undergraduate training in Psychology is not adequate will be required to take such undergraduate courses as seem necessary.

*Major and Allied Subjects.* Candidates for either advanced degree are expected to become competent in several different areas within this specialization. These areas are child development, learning, measurement and guidance, secondary education, the school as a social institution, and history and philosophy of education. For the M.A., two fields are required. For the Ph.D., five fields must be presented. The allied subject may be chosen from the fields of Psychology, Sociology, Anthropology or Philosophy.

*Requirements in Languages and Statistics.* French and German, for the Ph.D.; candidates for the M.A. must either (1) pass examinations in French and German or (2) pass an examination in French or German and demonstrate a working knowledge of statistics. Candidates for the Ph.D. will be required to demonstrate a working knowledge of statistics. The statistics requirement for both degrees may be satisfied by passing an approved course or an examination.

*Program and Examination for the M.A.* Candidates will normally offer two units of graduate work in Education and a third graduate unit in an allied field. The Final Examination consists of two three-hour written examinations—one in each field offered, and a one-hour oral examination.

*Examination for the Ph.D.* The Preliminary Examination consists of four written examinations in special fields, one may be in an allied field, and an oral examination on the entire field.



## THE PHEBE ANNA THORNE SCHOOL AND THE CHILD STUDY INSTITUTE

The Phebe Anna Thorne School is maintained by the Department as a laboratory nursery school for normal children where students may observe and assist in the program for three and four year olds. For those preparing for teaching, medical work with children, child welfare or guidance, the school provides opportunity for direct experience with early school development.

The Department also operates the Child Study Institute, a psychological and guidance center where problems of learning and behavior are studied and remedial measures planned and carried out for parents and children. The service is given by a staff of qualified specialists in child psychiatry, psychology, social case work and remedial teaching. Advanced students participate in the work at various levels of responsibility. Referrals from the neurological and pediatric departments of the Bryn Mawr Hospital, from psychiatrists and social agencies give students the opportunity for acquaintance with a diversity of clinical material.

A separate building on the college grounds houses the Thorne School and the Institute with rooms equipped for nursery school teaching and for individual examination of pupils, remedial teaching, play therapy and student observation.

## SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Miss McBride:

*The American School.*

Mrs. Cox:

*\*Advanced Clinical Evaluation (including the Projective Techniques).*

*Principles of School Guidance.*

*Problems of Child Development.*

*Adolescent Development.*

Miss Maxfield:

*\*Developmental Psychology.*

*\*Early Childhood Education.*

*Curriculum of the Elementary School.*

Mrs. Maw:

*Educational Psychology.*

*History and Philosophy of Education.*

*\*Research and Measurement in Education and Child Development.*

Appointment to be announced:

\**The Study of the Individual.*

\**The Psychology of Exceptional Children.*

#### SELECTED UNDERGRADUATE COURSES

[201a. *Educational Psychology*: Mrs. Cox.]

202a. *Child Psychology*: Mrs. Cox.

Prerequisite: General Psychology. Experience in the Phebe Anna Thorne School required, two hours per week.

301a. *Principles of Teaching in the Secondary School*: Mrs. Maw.

302a. *Principles of Teaching in the Elementary School*: Mrs. Maw.

These courses satisfy the practice-teaching requirement of most states. Plans for registration should be made in the spring or summer before the student plans to take the course so that appropriate arrangements for the practice-teaching assignment can be made. Laboratory: 12 hours per week supervised practice teaching.

#### CERTIFICATE TO TEACH

Requirements for the state certificate to teach in the public secondary school can be met by the appropriate selection of courses in this Department. Though each state has its own requirements, most follow the same pattern, namely the Bachelor of Arts degree with emphasis upon a content area offered in the secondary school plus eighteen semester hours of professional preparation for teaching. At Bryn Mawr the suggested sequence includes General Psychology followed by Principles of Teaching and Educational Psychology. The student then takes either History and Philosophy of Education or Child Psychology, depending upon her interest and prior training. Required of all is Principles of Teaching in the Secondary School which includes as its laboratory, twelve hours a week of supervised practice teaching in the public school. Much of the basic work leading to the elementary school certificate is offered by the Department. Additional required courses may be taken at the University of Pennsylvania.

Fulfillment of certification requirements does not fully satisfy requirements for the Master of Arts degree, but because there is some overlap, an able full-time student can meet the requirements for both the certificate and the degree in three semesters.

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\* Laboratory practice required.

## English

PROFESSORS:	STEPHEN JOSEPH HERBEN, B.LITT., PH.D. <sup>1</sup> K. LAURENCE STAPLETON, A.B., <sup>2</sup> <i>Chairman</i> ARTHUR COLBY SPRAGUE, PH.D., <i>Acting Chairman</i> BETTINA LINN, M.A. <sup>3</sup>
ASSOCIATE PROFESSORS:	WARNER B. BERTHOFF, PH.D. ISABEL GAMBLE MACCAFFREY, PH.D.
ASSISTANT PROFESSORS:	JAMES H. BRODERICK, M.A. ROBERT B. BURLIN, PH.D.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate major in English (or its equivalent) consisting of a critical and historical study of several periods of English Literature. Students working in the mediaeval period must have a reading knowledge of Latin. For other students this is strongly recommended. Students must have had some training in at least one other field of the humanities: a classical or a modern foreign literature, History, the History of Art or Philosophy.

*Allied Subjects.* Any language and literature, classical or modern European; English Philology; American Literature; Philosophy; History, mediaeval or modern; and the History of Art.

*Language Requirements.* French and German. In special cases, another modern language may be substituted for German, by permission of the Department.

*Program and Examination for the M.A.* Three units of work in English or two in English and one in an allied field. The Final Examination is written, four hours in length.

*Examinations for the Ph.D.* The Preliminary Examination is in five parts: four written (from three to four hours each) and an oral (one to two hours). The candidate whose major interest is

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1. On partial leave semester I, sabbatical leave semester II.

2. On sabbatical leave and leave of absence for the year 1960-61.

3. On sabbatical leave for the year 1960-61.

in the mediaeval period must take at least one examination in the modern period; the candidate whose major interest is in the modern period must take at least one examination in the mediaeval period. One examination may be in an allied field. The Final Examination (oral, from one to two hours) is in the field in which the candidate has written her dissertation.

## SEMINARS AND GRADUATE COURSES

*English Literature*

Mr. Herben (One of the following seminars) :

Beowulf and the Old English Lyrics.

Chaucer.

Middle English Romances.

Old English Christian Poetry.

Mr. Burlin:

Chaucer and His Contemporaries.

Mr. Sprague (One of the following seminars) :

Restoration Drama.

Shakespeare.

Miss Stapleton:

1961-1962: Studies in Poetry.

1962-1963: Milton.

Miss Woodworth:

~~1960-1961~~ 1961-1962: Literature of the Eighteenth Century.

~~1961-1962~~ 1962-1963: Contemporary Literature.

Mr. Broderick:

1960-1961: The Romantic Period.

Mr. Berthoff:

Nineteenth-Century American Writers.

A Seminar in Philology for students of English is offered in the Department of German (see p. 74).

## SELECTED UNDERGRADUATE COURSES

201. *English Literature of the Middle Ages*: Mr. Burlin.

202. *Shakespeare*: Mr. Sprague.

[203. *The Romantic Period*: Mr. Broderick.]

204. *The Victorian Period*: Mr. Broderick.

[205. *Representative English Novelists*: Miss Linn.]

207. *English and American Literature of the Last Half-Century*: Miss Woodworth.

- 208. *American Literature*: Mr. Berthoff.
- [212b. *Blake*: Miss Woodworth.]
- 213a. *Mediaeval Narrative*: Mr. Herben.
- [214a. *Sixteenth Century Prose*: Mrs. MacCaffrey.]
- 301a. *Old English*: Mr. Herben.
- 302a. *The Drama from the Beginnings to 1642*: Mr. Sprague.
- [303b. *English Poetry from Spenser to Donne*: Mr. Sprague.]
- 304. *The Seventeenth Century*: Mrs. MacCaffrey.
- 305. *The Eighteenth Century*: Miss Woodworth.

## French

VISITING PROFESSOR:	WILLIAM J. ROACH, PH.D.
ASSOCIATE PROFESSOR:	MARIO MAURIN, PH.D., <i>Chairman</i> <sup>1</sup>
ASSISTANT PROFESSORS:	MICHEL GUGGENHEIM, PH.D.
	PHILIP KOCH, PH.D.
LECTURER:	PAULINE JONES, M.A.
VISITING LECTURER:	JACQUES CHARPIER <sup>2</sup>
INSTRUCTOR:	BERNARD TOSCANI, M.A.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate major in French, based on study in school and at least three years of college French, including some advanced work in literature, with evidence of ability to present reports and carry on discussion in French. Training in Latin corresponding to at least two years' study in school.

*Major and Allied Subjects.* Students may specialize either in Old French Philology and Literature or in Modern French Literature. If the major field is Old French, advanced work in Modern French Literature may be offered as an allied subject and vice versa. The other allied subjects accepted by the Department are: any literature, ancient or modern; Comparative Philology; European History; Philosophy; History of Art.

*Language Requirements.* German, and either Italian or Spanish. Candidates for the M.A. may substitute for the Italian or Spanish examination evidence of extensive training in Mediaeval Latin or Advanced Classical Latin.

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1. On sabbatical leave for semester II, 1960-61.

2. Semester II, 1960-61.

*Program and Examination for the M.A.* Candidates will normally offer two units of graduate work in French and a third unit, graduate or undergraduate, in either French or an allied field. The Final Examination consists of a three-hour written examination and a one-hour oral examination, both in French.

*Program and Examinations for the Ph.D.* The Preliminary Examination consists of four papers written in French, and an oral examination conducted in English. Candidates whose major field is Old French are expected to present evidence of a general knowledge of Modern French Literature and to take one examination in that field and vice versa. Before being admitted to the Preliminary Examination candidates must satisfy the Department that they have an adequate command of spoken French.

#### SEMINARS AND GRADUATE COURSES

The introductory course in Old French is offered in each year. Students wishing further work in Old French may attend graduate courses at the University of Pennsylvania. Graduate seminars in selected fields of Modern French Literature are given in each year, so arranged that the same one will not be given in successive years. The seminars offered are selected from the following:

#### *Old French*

Mr. Roach:

Introduction to Old French Philology and Literature.

#### *Modern French Literature*

Mr. Guggenheim:

*Le moi dans la littérature française de Montaigne à Gide.*

*Rousseau et le Preromantisme.*

*Balzac et Flaubert.*

Miss Jones:

*Baudelaire.*

Mr. Koch:

*Corneille.*

*Racine et Pascal.*

*Marivaux.*

Mr. Maurin:

[*Aspects de la solitude dans la littérature française.*]

[*Rabelais et Montaigne.*]

[*Arts Poétiques de Mallarmé au Surréalisme.*]

Mr. Charpier:

Rhetoric and Imagination in French Poetry from Rimbaud to the Present.

During the first semester one of the following courses is offered by the Department:

*Problems and Methods of Research in French Literature.*

*Representative French Books.*

All candidates for the M.A. and Ph.D. degrees in French are advised to elect these courses, which carry no credit.

*Journal Club.* During the second semester members of the Department and graduate students meet at intervals to discuss research in progress, or recent books and articles of interest. Some of these meetings are held jointly with Departments of Italian and Spanish.

#### SELECTED UNDERGRADUATE COURSES

- [301. *French Poetry from Villon to Valéry:* Mr. Maurin, Miss Jones.]
- 302. *French Drama:* Mr. Guggenheim, Mr. Maurin.
- 303. *The French Novel from 1700 to 1950:* Mr. Guggenheim.
- [304. *French Essayists and Moralists:* Mr. Koch, Mr. Maurin.]

## Geology

### PROFESSORS:

EDWARD H. WATSON, PH.D.,  
*Chairman*

LINCOLN DRYDEN, PH.D.<sup>1</sup>

DOROTHY WYCKOFF, PH.D.

### VISITING LECTURER:

ALFRED GEORGE FISCHER, PH.D.<sup>2</sup>

### INSTRUCTOR:

FREDERIC G. LAYMAN, M.S.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* A course in General Geology and at least one course from each of the larger fields: Physical Geology and Paleontologic-stratigraphic Geology. Training in the allied sciences of Physics, Chemistry, Biology and Mathematics is necessary.

*Major and Allied Subjects.* Students may specialize in the fields typified by: Mineralogy-Petrology, Paleontology-Stratigraphy or Regional and Structural Geology. The allied subject for the Ph.D. may be either another field of Geology or any one of the other natural sciences or Mathematics; other subjects may be accepted in special cases.

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1. On sabbatical leave for semester I, 1960-61.

2. Semester I, 1960-61.

*Language Requirements.* For the M.A. and the Ph.D., German and one other modern language.

*Program and Examination for the M.A.* Three units of work, of which one will usually be a special piece of field or laboratory research. The Final Examination consists of a four-hour written test and a one-hour oral.

*Program and Examinations for the Ph.D.* Candidates will spend a major proportion of their time on a research problem; ordinarily, this will involve a combination of field mapping or collecting, together with laboratory study. The number of units of class work to be taken will depend on the student's preparation. The Preliminary Examination will test general background in Geology, the candidate's special field and either an allied subject or an additional field in Geology.

#### SEMINARS AND GRADUATE COURSES

At least three seminars are offered each year, to be selected from the following:

Mr. Watson and Miss Wyckoff: *Petrology*

Selected subjects in the structure, physical chemistry and origin of the igneous rocks.

Miss Wyckoff: *Metamorphism*

The physical and chemical processes of metamorphism, accompanied by regional studies.

Mr. Watson, Miss Wyckoff, Mr. Layman: *Petrographic Methods*

This is largely a course in laboratory instruction and in general will accompany the seminars in Petrology and Metamorphism. Special techniques such as the universal stage, X-ray analysis, mechanical separations from rocks and petrofabric analysis will be taught.

Mr. Dryden: *Stratigraphy*

A study of selected theoretical and practical problems of correlation. Usually conducted in connection with a field problem.

Mr. Watson, Miss Wyckoff: *Structural Geology*

The analysis of regional structures, generally undertaken with reference to a field problem.



Mr. Watson: *Mineralogy*

The optical, chemical and X-ray study of selected mineral groups.

Mr. Dryden: *Sedimentation*

A study of the origin of sedimentary rocks; their source, transportation and deposition.

Mr. Layman and Mr. Watson: *Geochemistry*

A study of the distribution of elements, crystal structure and chemistry, mineral equilibria, et cetera.

#### SELECTED UNDERGRADUATE COURSES

- 301. *Structural and Field Geology*: Mr. Watson.
- [302. *Stratigraphy*: Mr. Dryden.]
- 303. *Optical Mineralogy* (first semester) and *Petrology* (second semester): Miss Wyckoff, Mr. Watson.
- 305. *Geography*: Miss Wyckoff.
- 306. *The Development of Scientific Thought*: Miss Wyckoff, Miss Lehr, and other members of the Faculty.

## German

ASSOCIATE PROFESSOR: CHRISTOPH E. SCHWEITZER, PH.D.,  
*Chairman*

ASSISTANT PROFESSORS: MARTHA M. DIEZ, M.A.  
HUGO SCHMIDT, PH.D.  
JAMES E. WRIGHT, PH.D.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate major or minor in German or an equivalent preparation.

*Major and Allied Subjects.* Students may specialize in either German literature or Germanic philology. One of these two fields or an area in the humanities, especially the literatures, may serve as the allied subject.

*Language Requirements.* Normally French and Latin for the M.A. and Ph.D. For the M.A. another language may substitute for Latin.

*Program and Examination for the M.A.* The program consists of one or two courses in literature and one in philology. The third

unit may be in an allied field. In addition to acquainting the student with the field in general, the M.A. program introduces various methods of literary criticism. Every candidate must present a paper which represents satisfactory evidence of independent research. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

*Program and Examination for the Ph.D.* Every candidate must fulfill certain requirements in German literature and Germanic philology. Those majoring in Germanic philology will select the following courses: Comparative Indo-European, Gothic, Old High German, and one of the following: Old Saxon, Old English, or Old Norse. Work in German dialects, structural linguistics, and a non-Indo-European language is recommended. Those majoring in German literature will normally take one unit each in the mediaeval, classical, and modern periods, as well as at least one genre course. Under the guidance of members of the Department each student will engage in independent reading and research to supplement the course work. The Department encourages interdepartmental research projects and draws attention to the Ottendorfer Research Fellowship for study at a German university. The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination.

#### SEMINARS AND GRADUATE COURSES

The courses offered are selected from the following:

Mr. Schweitzer:

*German Baroque Literature.*

*Goethe and Schiller.*

*The "Bildungsroman."*

Mr. Schmidt:

*Lyric Poetry Since Goethe.*

*The Modern German Novel.*

*Methods of Literary Criticism.*

Mr. Wright:

*Introduction to Indo-European.*

*Gothic.*

*Old High German.*

*Old Saxon.*

## SELECTED UNDERGRADUATE COURSES

301. *Introduction to Germanic Philology*: Mr. Wright.  
 [302. *Middle High German Literature*: Mr. Wright.]  
 [303. *The Classics of the Nineteenth Century*: Mr. Schmidt.]  
 [304. *Modern German Literature*: Mr. Schweitzer.]  
 [305. *The German "Novelle"*: Mr. Schweitzer.]  
 306. *The German Drama*: Mr. Schmidt.  
 [307. *German Poetry*: Mr. Schmidt.]

## Greek

PROFESSORS:	RICHMOND LATTIMORE, PH.D., LITT.D. <sup>1</sup> MABEL L. LANG, PH.D., <i>Chairman</i>
VISITING PROFESSOR:	RHYS CARPENTER, PH.D., LITT.D.
INSTRUCTORS:	HARRY C. AVERY, PH.D. ROSAMOND KENT SPRAGUE, PH.D.

INSTRUCTOR IN LATIN: ERNEST A. FREDRICKSMEYER, PH.D.

*Special Requirements for Graduate Work*

(for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate major or minor in Greek, based on at least four years of college Greek, or the equivalent, with representative reading from Greek literature and history which, in the opinion of the Department, provides an adequate basis for graduate work. It is expected that all graduate students in Greek should have some knowledge of Latin.

*Allied Subjects.* Any literature, ancient or modern, Ancient History, Ancient Philosophy, Classical Archaeology, Comparative Philology.

*Language Requirements.* French and German.

*Program and Examination for the M.A.* The program consists of two units of graduate work in Greek and a third unit in an allied field. Before admission to the Final Examination candidates must pass an examination in Greek sight translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

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1. On leave of absence and sabbatical leave for the year 1960-61.

*Examinations for the Ph.D.* Before admission to the Preliminary Examination candidates must pass a rigorous examination in Greek sight translation. The Preliminary Examination consists of four written papers, one of which shall be in an allied subject, and an oral examination. The fields from which the three major papers may be selected include: Epic Poetry, Lyric Poetry, Tragedy, Comedy, the Orators, the Historians, the Pre-Socratics, Plato and various periods of Greek history.

#### SEMINARS AND GRADUATE COURSES

Mr. Carpenter, Mr. Fredricksmeier:

*Plato.*

Mr. Avery:

*Pindar.*

#### SELECTED UNDERGRADUATE COURSES

204. *Thucydides and Aeschylus*: Mr. Avery.

[301. *Early Greek Literature: History and Criticism*: Mr. Lattimore, Miss Lang.]

## History

PROFESSORS:

CAROLINE ROBBINS, PH.D.,<sup>1</sup>

*Chairman*

FELIX GILBERT, PH.D.

ASSOCIATE PROFESSOR:

ARTHUR P. DUDDEN, PH.D.

ASSISTANT PROFESSORS:

RAYMOND F. BETTS, D. d'Univ., PH.D.

DAVID J. HERLIHY, PH.D.

LECTURER:

MARY MAPLES, PH.D.

INSTRUCTOR:

JANE SCHWARTZ BENJAMIN, PH.D.

PROFESSOR OF LATIN:

THOMAS ROBERT SHANNON

BROUGHTON, PH.D.<sup>2</sup>

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

1. On sabbatical leave for the year 1960-61.

2. On leave of absence and sabbatical leave for the year 1960-61.

*Prerequisites.* A good undergraduate preparation in general History, the humanities and the social sciences. Students who wish to work in seminars in the ancient or mediaeval fields must be able to read Latin. Those planning work in Modern European History must have a reading knowledge of one modern language, preferably French or German.

*Major and Allied Subjects.* Students may work in Ancient, Mediaeval or Modern European History as well as in English and American. Most subjects in the field of History, social science, literature and the humanities will be accepted as allied work provided the student's general preparation is acceptable to the Department.

*Language Requirements.* Two languages are required for the M.A. and for the Ph.D. degree. Preference is given to French and German and substitutions for either of these languages may be made only with the consent of the Department.

*Program and Examination for the M.A.* The program consists of three units of work in History or in History and an allied field. The Final Examination is written and usually four hours in length.

*Program and Examinations for the Ph.D.* All students are expected at some time to take a seminar or course in which some aspects of historiography are studied. The Preliminary Examination tests the student's competence in four general fields of History, or in three fields of History and one field in an allied subject. For example, work in Mediaeval Literature, Art or Philosophy is usually recommended to students of Mediaeval History and one of these may be offered in the Preliminary Examination. Students whose dissertations are in American History will be required to take at least two fields in European History. Students specializing in English History must offer at least two fields of Mediaeval or Modern European History for examination.

#### SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the fullest possible choice for students over a two- or three-year period of study. Normally the same seminar will not meet two years in succession.

[Mr. Broughton: *Ancient History*.]

*Mediaeval and Renaissance History*

Mr. Herlihy: Mediaeval Institutions.

Mr. Gilbert: Intellectual and Political Problems in the Age of the Renaissance and Reformation.

*British History*

[Miss Robbins: Topics in the History of the Period 1649-1783.]

*American History*

Mr. Dudden: Topics in the History of the United States.

*Modern European History*

[Miss Robbins: Eighteenth Century Life and Thought.]

Mr. Betts: Topics in the Political History of the Nineteenth and Twentieth Centuries.

*Journal Club.* Students and members of the faculty in the Department together with those interested in the Departments of Economics and Political Science meet four or five times a year to discuss research in progress, or recent books and projects, or to entertain visiting scholars.

## SELECTED UNDERGRADUATE COURSES

- 301. *Europe in the Twentieth Century*: Mr. Betts, Mr. Gilbert.
- [303a. *The Expansion of the American Nation*: Mr. Dudden.]
- 303b. *The American People in the Recent Past*: Mr. Dudden.
- 304a. *English History in the Nineteenth Century*: Mrs. Benjamin.
- 305. *Renaissance and Reformation*: Mr. Gilbert.
- 306a. *The Enlightenment*: Miss Maples.
- 306b. *Great Historians*: Miss Maples.

## History of Art

VISITING PROFESSORS: ALEXANDER COBURN SOPER, M.F.A., PH.D.  
CHARLES MITCHELL, M.A., B.LITT.

ASSOCIATE PROFESSORS: JAMES W. FOWLE, PH.D., *Chairman*  
WILLIAM C. LOERKE, M.F.A., PH.D.

INSTRUCTOR: GERALD M. ACKERMAN, M.F.A.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Program for the Ph.D.:* Prime emphasis is placed on a program of research leading to a dissertation. A Preliminary Examination in four art-historical subjects (or in three art-historical subjects and one allied subject), consisting of four written papers and an oral examination, must be satisfactorily completed.

*Program for the M.A.:* This consists of (a) three units of graduate work, one of which may be in an allied field; (b) an extended paper on a topic chosen in consultation with the Department; (c) a Final Examination (written or written and oral) to test the candidate's ability to place the topic chosen under (b) in the general context of the history of art.

*Allied Subjects:* To be determined in consultation with the Department, according to the needs of the individual research program.

*Prerequisites:* The normal prerequisite for admission is a training in art history, but students with special abilities, or sound training in cognate disciplines are also admitted.

*Languages:* Students will be expected to read the languages necessary for their fields of special study by the end of their first year in the Graduate School. Since advanced study of western art history normally involves a working knowledge of German, French and Italian, any two of these are acceptable.

#### SEMINARS AND GRADUATE COURSES

Mr. Soper:

*Early Chinese Painting.*

Mr. Mitchell:

*Problems in Renaissance Art.*

Mr. Loerke:

*Topics in Byzantine Art.*

Mr. Fowle:

*French Painting, Eighteenth-Nineteenth Centuries.*

#### SELECTED UNDERGRADUATE COURSES

201. *Mediaeval Art:* Mr. Loerke.

302. *Renaissance Art:* Mr. Mitchell.

203. *Baroque Art:* Mr. Ackerman.

204. *Modern Art:* Mr. Fowle.

## History of Religion

PROFESSOR OF LATIN: AGNES KIRSOPP MICHELS, PH.D.<sup>1</sup>

PROFESSOR OF PHILOSOPHY  
AND RELIGION: Appointment to be announced.

No graduate work is offered in History of Religion.

The courses listed are open to graduate students and may be taken for graduate credit with the permission of the major Department.

### UNDERGRADUATE COURSES

103. *Literary History of the Bible*: Mrs. Michels.

The history of the Bible, with special emphasis on analysis of text and on literary forms.

201a. *Comparative Religion*: To be announced.

201b. *History of Christian Thought*: To be announced.

203a. *Philosophy of Religion*: To be announced.

This course is also listed as Philosophy 203.

203b. *Mediaeval Philosophy*: To be announced.

## Italian

PROFESSOR: ANGELINE H. LOGRASSO, PH.D.,  
*Chairman*

INSTRUCTOR: BERNARD TOSCANI, M.A.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate major or minor in Italian or its equivalent in ability to read, write and speak Italian together with a knowledge of Italian classical literature which, in the

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1. On sabbatical leave for the year 1960-61.



opinion of the Department, provides an adequate basis for graduate work.

*Allied Subjects.* Any language or literature, European History, History of Art, Philosophy, Music, Political Science; other fields of importance for the candidate's work will be considered.

*Language Requirements.* French and German. In exceptional cases, determined by the special interests of the student, Latin or another language may be substituted for one of the two required languages.

*Program and Examination for the M.A.* Three units of work in Italian or in Italian and an allied field. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

*Examination for the Ph.D.* The Preliminary Examination consists of four written papers and an oral examination. One paper must be in the field of Provençal preferably Provençal and Old French. One paper may be in an allied field determined by the special interests of the student. Before taking the Preliminary Examination the candidate must demonstrate proficiency in spoken Italian.

#### SEMINARS AND GRADUATE COURSES

The seminar given is selected from the following. Normally the same seminar does not meet two years in succession and is usually not repeated within a three-year period.

Miss Lograsso:

*Dante.*

*Literary Criticism.*

*Manzoni.*

*Old Italian.*

*Provençal.*

*Studies in Italian Romanticism.*

*Studies in the Thought of Luigi Sturzo.*

#### SELECTED UNDERGRADUATE COURSES

[201. *Classics in Italian Literature:* Miss Lograsso.]

Reading and explanation of texts, with a study of literary history.

202. *Dante*: Miss Lograsso.

The *Vita Nuova* and *Divina Commedia*, with some attention to the minor works. This course is open to anyone with a reading knowledge of Italian.

302c. *The Italian Language*: Miss Lograsso.

Advanced work in composition.

[303. *Italian Literature of the Rinascimento*: Miss Lograsso.]

304. *Italian Literature of the Romantic Period*: Miss Lograsso and Mr. Toscani.

## Latin

PROFESSORS: THOMAS ROBERT SHANNON BROUGHTON,  
PH.D., *Chairman*<sup>1</sup>  
BERTHE MARIE MARTI, PH.D.,  
*Acting Chairman*  
AGNES KIRSOPP MICHELS, PH.D.<sup>2</sup>

### VISITING

PROFESSOR: LILY ROSS TAYLOR, PH.D.  
INSTRUCTORS: ERNEST A. FREDRICKSMEYER, PH.D.  
LYDIA HALLE LENAGHAN, PH.D.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate major or minor in Latin, based on study in school and at least three years of college Latin, part of it in advanced courses; representative reading from Latin Literature of the classical period which, in the opinion of the Department, provides an adequate basis for graduate work. It is desirable that all graduate students in Latin should have some knowledge of Greek.

*Allied Subjects.* Any literature, ancient or modern, including Mediaeval Latin Literature; Ancient History and, for students whose major interest is Mediaeval Latin, Mediaeval History; Classical Archaeology; Classical Philology. For most students the Department recommends Greek as the allied subject.

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1. On leave of absence and sabbatical leave for the year 1960-61.

2. On sabbatical leave for the year 1960-61.

*Language Requirements.* French and German. In addition a reading knowledge of Greek is required for the Ph.D.

*Program and Examination for the M.A.* Candidates will normally offer two units of graduate work in Latin and a third unit, graduate or undergraduate, in an allied field. Before admission to the Final Examination candidates must pass an examination in Latin sight translation. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

*Examinations for the Ph.D.* Before admission to the Preliminary Examination candidates must pass a rigorous examination in Latin sight translation. Candidates who do not offer Greek as an allied field must pass an examination in sight translation of Greek before they are admitted to the Final Examination. The Preliminary Examination consists of four written papers and an oral examination. Candidates whose major interest is Classical Latin are expected to offer in their Preliminary Examination Latin Literature of the classical period (Livius Andronicus to Tacitus) and, in most cases, one subsidiary field within the major—for instance a period of Roman History, Roman Religion, the History of Classical Scholarship, Epigraphy or Palaeography. In addition candidates are expected to offer an allied field (usually Greek). Candidates whose major interest is Mediaeval Latin are expected to show in their Preliminary Examination a broad knowledge of classical Latin Literature, but the emphasis in the examinations will be determined by the special interests of the student.

#### SEMINARS AND GRADUATE COURSES

The seminars offered are selected from the following:

Mr. Broughton:

[*The Augustan Empire.*

*Cicero's Correspondence.*

*History and Literature of the Second Century B.C.*

*Latin Inscriptions.*]

Miss Marti:

*History of Classical Scholarship.*

*Latin Palaeography and Textual Criticism.*

*Literature of the Silver Age.*

*Literature of the Twelfth Century.*

Mrs. Michels:

[*Augustan Poetry.*  
*Lucretius and Catullus.*  
*Roman Satire.*  
*The Works of Vergil.*]

Miss Taylor:

*Cicero's Correspondence and His Political Essays.*

Mrs. Lenaghan:

*Roman Satire.*

Mr. Fredricksmeyer:

*Horace.*

#### SELECTED UNDERGRADUATE COURSES

301a. *Vergil's Aeneid*: Mrs. Lenaghan.

301b. *Tacitus and Livy*: Mr. Fredricksmeyer.

[302a. *Cicero and Caesar*: Mrs. Michels.]

[302b. *Lucretius*: Mrs. Lenaghan.]

## Mathematics

PROFESSORS:

JOHN C. OXTOBY, M.A., *Chairman*<sup>1</sup>  
 MARGUERITE LEHR, PH.D.,  
*Acting Chairman*

ASSOCIATE PROFESSOR:

FREDERIC C. CUNNINGHAM, PH.D.

LECTURER:

LOUIS DE BRANGES, PH.D.

*Special Requirements for Graduate Work*  
 (for the general requirements, see pp. 28-34)

*Prerequisites.* A good undergraduate preparation in Mathematics, or in Mathematics and Physics.

*Major and Allied Subjects.* Students may specialize in any of the broad divisions of Mathematics: Algebra, Analysis, Geometry, or Mathematical Physics, but are expected also to acquire a well-rounded knowledge of Mathematics. Certain courses in Physics, Chemistry or Philosophy (logic) are accepted as allied work.

*Language Requirements.* French and German.

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1. On leave of absence for the year 1960-61.

*Program and Examination for the M.A.* The program consists of three units of work in Mathematics, or in Mathematics and an allied field. Advanced undergraduate courses which supplement the student's preparation may under certain conditions be taken for graduate credit. The Final Examination is usually oral and one hour in length.

*Program and Examinations for the Ph.D.* Candidates will take such courses and seminars as are needed to provide a sufficiently broad foundation. As they progress they will devote an increasing proportion of their time to individual study and research under the direction of a member of the Department. The Preliminary Examination is taken after the student is well advanced and usually consists of three or four written examinations intended to test the candidate's breadth of knowledge and understanding of the structure of Mathematics as a whole. It may or may not include an oral examination. The Final Examination is oral and is devoted to the candidate's special field and the subject of the dissertation.

#### SEMINARS AND GRADUATE COURSES

At least three graduate courses or seminars are offered each year. Additional courses of directed reading and research can be arranged. The seminars offered in any year are selected to meet the needs of the individual students. Some may be offered for one semester only. They are usually selected from the following:

Mr. Cunningham:

*Functional Analysis.*

*General Topology.*

*Linear Spaces.*

*Theory of Functions of a Complex Variable.*

Miss Lehr:

*Abstract Algebra.*

*Differential Geometry.*

*Probability Theory.*

*Projective Geometry and Lattice Theory.*

*Theory of Estimation and Tests of Hypothesis.*

Mr. Oxtoby:

[*Ergodic Theory.*  
*Mathematical Physics.*  
*Measure Theory.*  
*Point Set Topology.*  
*Theory of Functions of a Real Variable.*]

Mr. de Branges:

*To be announced.*

*Journal Club.* A joint Mathematical Colloquium with Haverford and Swarthmore Colleges and the University of Pennsylvania meets approximately every two weeks for the presentation of current research by local or visiting mathematicians.

#### SELECTED UNDERGRADUATE COURSES

301. *Advanced Calculus:* Mr. de Branges.  
 [303a. *Introduction to Abstract Algebra:* Miss Lehr.]  
 304a. *Theory of Probability and Statistics:* Miss Lehr.  
 [305b. *Topics in Differential Geometry:* Miss Lehr.]  
 [310. *Theory of Functions of a Complex Variable:* Mr. Oxtoby.]  
 311b. *Differential Equations:* Mr. de Branges.

### Mediaeval Studies

PROFESSOR OF LATIN:	BERTHE MARIE MARTI, PH.D., <i>Chairman</i>
PROFESSOR OF ENGLISH	
PHILOLOGY:	STEPHEN JOSEPH HERBEN, LITT.B., PH.D. <sup>1</sup>
PROFESSOR OF ITALIAN:	ANGELINE HELEN LOGRASSO, PH.D.
PROFESSOR OF	
HISTORY OF ART:	CHARLES MITCHELL, M.A., B.LITT.
VISITING PROFESSOR	
OF FRENCH:	WILLIAM J. ROACH, PH.D.
ASSOCIATE PROFESSOR	
OF HISTORY OF ART:	WILLIAM C. LOERKE, PH.D.
ASSISTANT PROFESSOR	
OF ENGLISH:	ROBERT B. BURLIN, PH.D.
ASSISTANT PROFESSOR	
OF HISTORY:	DAVID HERLIHY, PH.D.
ASSISTANT PROFESSOR	
OF GERMAN:	JAMES E. WRIGHT, PH.D.

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1. On partial leave semester I, sabbatical leave semester II.

*Prerequisites.* An undergraduate major in any of the fields listed in the paragraph under major and allied subjects. Efficient reading knowledge of Latin and two modern languages.

*Major and Allied Subjects.* Any literature ancient, mediaeval or modern, History, Philosophy, Archaeology, History of Art, History of Music.

*Program and Examinations for the M.A.* Candidates will normally work in two departments and will offer at least two units of graduate work in any of the mediaeval fields and a third unit in any of the fields listed as allied. An extended paper, usually growing out of the work of one of the seminars will be required in addition to the examination. The examination may be either written (four hours) or written and oral (three hours—one hour).

*Program and Examinations for the Ph.D.* The course of study will normally be under the guidance of one professor. Prime emphasis will be placed on a program of research leading to a dissertation. A satisfactory Preliminary Examination in two mediaeval fields and one allied field, consisting of several examinations, written and oral, will be required.

#### SEMINARS AND GRADUATE COURSES (See under the various departments)

## Music

PROFESSOR AND DIRECTOR OF  
THE CHORUS:

ROBERT L. GOODALE, A.B., B.Mus.,  
A.A.G.O., *Chairman*<sup>1</sup>

PROFESSOR AND DIRECTOR OF  
ENSEMBLE GROUPS:

AGI JAMBOR, M.A.

VISITING PROFESSOR:

HORACE ALWYNE, F.R.M.C.M.,  
*Acting Chairman*

ASSISTANT PROFESSOR:

SYLVIA W. KENNEY, B.Mus., Ph.D.

INSTRUCTOR:

ROBERT SUDERBURG, M.Mus.

DIRECTOR OF ORCHESTRA:

WILLIAM H. REESE, Ph.D.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

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1. On sabbatical leave for the year 1960-61.

*Prerequisites.* Two years of Harmony, Counterpoint and Analysis, three years of History and Appreciation of Music, of which at least one should be in an advanced course, and a reading knowledge of one modern language, preferably German. Candidates must have a sufficient knowledge of pianoforte or organ playing to be able to play music of the technical difficulty of a Bach figured chorale.

*Allied Subjects.* Any modern language or literature, History, History of Art, History of Religion, Philosophy.

*Language Requirements.* Two modern languages are required for the M.A. degree, preference being given to German and French. For candidates for the Ph.D. degree two languages are required, one of which must be German.

*Program and Examination for the M.A.* The program consists of three units of work in Music. The Final Examination is written and four hours in length.

*Examinations for the Ph.D.* The Preliminary Examination consists of four papers in the major field, or three papers in the major field and one in an allied field, and an oral examination. The oral examination covers the subject matter of the dissertation.

#### SEMINARS AND GRADUATE COURSES

Miss Kenney:

*Mediaeval and Early Renaissance Music: a Study of Style and Paleography.*

*Music of the Late Renaissance and Baroque.*

Mr. Goodale:

*[Music of the Twentieth Century.*

*Theory and Analysis.]*

Mme Jambor:

*The Interpretation of Music.*

A prerequisite for this seminar is the ability to perform on a musical instrument.

Mr. Alwyne:

*The Music of England.*

*The Nineteenth Century.*



SELECTED UNDERGRADUATE COURSES

- 201. *The Romantic Period*: Mr. Alwyne.
- 202. *Advanced Theory and Analysis*: Mr. Suderburg.
- 203c. *Bach*: Mme Jambor
- 204c. *The Classical Period*: Miss Kenney.
- 301a. *Opera and Music Drama*: Mr. Alwyne.
- 301b. *Contemporary Music*: Mr. Alwyne.
- [302a. *Mediaeval Music*: Miss Kenney.]
- [302b. *Renaissance and Baroque Music*: Miss Kenney.]
- [303a. *Orchestration*: Mr. Goodale.]
- 304c. *Interpretation of Keyboard Music, Seventeenth Century to the Present*: Mme Jambor.

Membership in the Ensemble Groups, the Orchestra and the College Chorus is open to Graduate Students. Participation by students in the Department in one or more of these organizations is strongly urged.

## Philosophy

PROFESSORS:	MILTON CHARLES NAHM, B.LITT., PH.D., <i>Chairman</i> JOSÉ MARIA FERRATER MORA, <i>Lic.F.L.</i> ISABEL SCRIBNER STEARNS, PH.D.
VISITING PROFESSOR:	PAUL SCHRECKER, PH.D., LL.D.
ASSOCIATE PROFESSORS:	GEORGE L. KLINE, PH.D. HUGUES LEBLANC, PH.D.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* In general, an undergraduate major in Philosophy. Students whose undergraduate training does not include a major in Philosophy or whose undergraduate major work is not adequate may be required to take such undergraduate courses as the Department considers necessary.

*Major and Allied Subjects.* Students may major in either historical or systematic branches of Philosophy. Allied subjects: another field of Philosophy, Biology, Chemistry, Economics, English, French, Greek, History, Latin, Mathematics, Music, Physics, Political Science, Psychology, Sociology and Anthropology.

*Language Requirements.* French and German. In special cases, with the recommendation of the Department, a substitution may be made of one other modern language.

*Program and Examination for the M.A.* Three units of work in Philosophy or in Philosophy and an allied field. The Final Examination is usually written and four hours in length.

*Examinations for the Ph.D.* The Preliminary Examination consists of four written papers in the major and allied fields and an oral examination.

#### SEMINARS AND GRADUATE COURSES

A minimum of three seminars, historical and systematic, is offered each year. The sequence of the seminars listed below will be adjusted according to the needs of the students.

Mr. Ferrater Mora:

*Continental Rationalism in the Seventeenth Century.*

The Scientific Revolution; Descartes and Cartesianism, Malebranche, Spinoza, and Leibniz.

*Nineteenth Century Philosophy.*

Nineteenth century philosophic thought from positivism to phenomenology.

*Types of Philosophy.*

A study of the various ways of grouping philosophic systems, with an analysis of philosophic methods.

Mr. Nahm:

*Aesthetics.*

A systematic and historical analysis of problems in the philosophy of art.

*Ethics.*

The Ethics of Kant and Hegel; or The History of English Ethics; or Henry Sidgwick and Contemporary British Moralists.

*Kant.*

*Critique of Pure Reason.*

Miss Stearns:

*Epistemology.*

An historical and systematic study of the function of reason and other agencies in knowledge.

*Metaphysics.*

A study of such problems as time, the one and the many, the individual, appearance and reality.

*Plotinus.*

A detailed study of the *Enneads*.

Mr. Leblanc:

*British Empiricism.*

The philosophies of Locke, Berkeley and Hume.

*Logic.*

A systematic study of deductive or inductive logic.

*The Theory of Meaning.*

Detailed study of meaning in the light of developments in modern logic.

Mr. Schrecker:

*Problems of Phenomenology.*

A study of the development of the phenomenological philosophy, with emphasis on Husserl and his predecessors.

*Journal Club.* Students have the privilege of becoming auxiliary members of the Fullerton Club, which meets each month at the Deanery, and at which papers are read by members of the faculties of Bryn Mawr, Swarthmore, Haverford and other nearby colleges, and the University of Pennsylvania.

#### SELECTED UNDERGRADUATE COURSES

- 201a. *German Idealism*: Mr. Ferrater Mora.
- 201b. *Recent Metaphysics*: Miss Stearns.
- 202a. *Logic*: Mr. Leblanc.
- 204a. *Hegel*: Mr. Kline.
- 301a. *Aesthetics*: Mr. Nahm.
- 301b. *Theory of Knowledge*: Mr. Leblanc.
- 302a. *Plato*: Miss Stearns.
- [302b. *Philosophy of History*: Mr. Ferrater Mora.]
- 303b. *Contemporary Philosophy*: Mr. Ferrater Mora.
- [304b. *Aristotle*: Mr. Ferrater Mora.]

## Physics

PROFESSOR:	WALTER C. MICHELS, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	ROSALIE C. HOYT, PH.D. JOHN R. PRUETT, PH.D.
ASSISTANT PROFESSOR:	CHARLES MILLER, PH.D.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate major in Physics or in a field of study closely allied to Physics (e.g. Mathematics, Chemistry, Engineering). Students who have not majored in Physics will usually find it necessary to take some undergraduate courses before entering graduate seminars.

*Allied Subjects.* Candidates for the degree of Doctor of Philosophy are in general expected to offer Mathematics as an allied subject. They may substitute Chemistry, Biology or Geology if their mathematical training is accepted as adequate for their work in Physics.

*Language Requirement.* The two languages required for the M.A. and Ph.D. degrees will ordinarily be chosen by the student to include one each from two of the following categories: (a) German; (b) Russian; (c) French, Italian or Spanish.

*Program and Examination for the M.A.* An oral qualifying examination must be passed before the student is admitted to candidacy. The subject matter of the examination will include only material ordinarily covered in undergraduate college Physics courses, but the student will be expected to handle this material on a reasonably mature level.

Each candidate is expected to have completed Physics 304 or its equivalent. The three units of work offered for the degree will ordinarily include one unit of Experimental Physics and at least one graduate seminar in Theoretical Physics. The paper will usually consist of a report on work done in connection with the unit of Experimental Physics.

The M.A. examination is a one-hour oral examination.

*Program and Examination for the Ph.D.* Each candidate must have completed Physics 304 or its equivalent and have passed the

oral qualifying examination described above before being recommended for candidacy.

The Preliminary Examination is intended to test the candidate's general background and to determine whether this background is broad and deep enough to serve as a preparation for original research work in a specialized field. In general, two years of full or part-time graduate work should prepare the student for this examination and candidates for the Ph.D. are urged to submit themselves for examination at this stage of their work, unless informed that weaknesses in their undergraduate preparation make a delay desirable. The examination will consist of two four-hour written examinations, one problem set, and an oral examination lasting approximately one hour. Each of the two four-hour examinations will cover one of the following fields of physics, to be chosen by the Department: (1) Classical Mechanics, including Relativity. (2) Thermodynamics and Statistical Mechanics. (3) Electricity and Magnetism. (4) Wave Phenomena, including both Optical and Acoustical Waves. (5) Quantum Mechanics. (6) Atomic and Nuclear Structure. The student devotes approximately twelve hours to direct work on the problem set over a three-day period. Any books, periodicals, notes, etc. may be used in connection with the problem set. The oral examination is devoted to general Physics.

Each full-time graduate student is expected to carry on some experimental work each year. Unless the candidate has demonstrated adequate acquaintance with Experimental Physics in other ways, the research leading to the dissertation must be, at least in part, experimental.

#### SEMINARS

One or two graduate seminars in Theoretical Physics are offered each year. In addition, a seminar in Experimental Physics is arranged individually for students desiring it, and generally serves as an introduction to a research problem.

Mr. Michels, Miss Hoyt, Mr. Pruett: *Experimental Physics*.

Miss Hoyt: *Theoretical Physics*

1960-61: *Quantum Mechanics*. Necessity for the quantum hypothesis. The Schroedinger and Heisenberg formulations with applications to atomic structure. The Dirac

approach with applications to Relativistic Electron Theory and the Quantum Theory of Radiation. Prerequisite: An advanced undergraduate course in Mechanics or in Theoretical Physics.

Mr. Michels:

1960-61: *Electromagnetic Theory*. Maxwell's Equations, applications to waves subject to various boundary conditions, transmission lines, wave guides, radiating systems. Prerequisite: An advanced undergraduate course in Electricity and Magnetism or in Theoretical Physics.

Mr. Pruett:

1960-61: *Nuclear Physics*. An introductory study of classical nuclear physics followed by applications of Quantum Mechanics to nuclear problems and associated high energy phenomena. Some Quantum Electrodynamics and Meson Theory will be included. Prerequisite: Quantum Mechanics or its equivalent.

Mr. Michels:

1961-62: *Physics of the Solid State*. Classification and characteristics of solids, theory of mechanical, electrical, thermal and magnetic properties. Prerequisites: Quantum Mechanics and Electromagnetic Theory. Either may be taken concurrently.

Miss Hoyt:

1962-63: *Chemical Physics*. Chemical and phase equilibria, interatomic and intermolecular forces, chemical bonding, molecular structure. Prerequisite: Quantum Mechanics.

*Colloquium*. All members of the Department and all graduate students meet weekly for the discussion of current problems.

#### SELECTED UNDERGRADUATE COURSES

201a. *Electricity and Magnetism*: Mr. Pruett.

201b. *Optics*: Mr. Pruett.

301a. *Classical and Statistical Mechanics*: Mr. Michels.

302b. *Atomic and Nuclear Structure*: Miss Hoyt.

304. *Introduction to Theoretical Physics*: Mr. Miller.

305c. *Physical Measurements*: Miss Hoyt and Mr. Michels.

[351.\* *Application of Physics to Biology and Chemistry*: Miss Hoyt.]

## Political Science

*The Caroline McCormick Slade Department of Political Science*

PROFESSOR: ROGER HEWES WELLS, PH.D.,  
*Chairman*

ASSOCIATE PROFESSORS: PETER BACHRACH, PH.D.  
MELVILLE T. KENNEDY, JR., PH.D.  
GERTRUDE C. K. LEIGHTON, A.B., LL.B.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* Good undergraduate training in Political Science and related subjects.

*Major and Allied Fields.* The major fields in Political Science are Political Theory, Comparative Government, American Government and Constitutional Law, International Law and Organization and Public Administration. Allied fields may be chosen in the other Social Sciences, in History and Philosophy, and with the special permission of the Department, in certain subjects in Literature. Candidates for the Ph.D. are expected to prepare themselves in four fields, one of which may be an allied field.

*Language Requirements.* Two modern languages are tested by written examinations.

*Program and Examination for the M.A.* The program consists of three units of work in Political Science, but a unit from an allied field may be substituted for one of these. The Final Examination is written.

*Program and Examination for the Ph.D.* Candidates are expected to offer four fields, one of them being the field in which the dissertation is done. The other three fields are tested by preliminary written and oral examinations. The fourth field and the dissertation are covered in the Final Oral Examination.

### SEMINARS

Seminars are offered in the major fields of Political Science. Those which are not bracketed are scheduled for 1960-61.

Mr. Wells:

*Comparative Government: Problems of Federalism.*

[*Problems of Public Administration.*]

[*Topics in Western Political Thought.*]

Mr. Bachrach:

*American Constitutional Law.*

Miss Leighton:

*The World Community and Law.*

Mr. Kennedy:

*Topics in Chinese Political and Social Development:  
1911-1949.*

[*Problems in East Asian International Relations.*]

*Journal Club.* Students are expected to attend the Journal Club. This meets from time to time during the year to discuss research in progress, recent books and other topics of scholarly interest.

#### SELECTED UNDERGRADUATE COURSES

302b. *Western Political Theory: Plato to 1500:* Mr. Wells.

306a. *Law and Society:* Miss Leighton.

309b. *Public Opinion and Propaganda:* Mr. Bachrach.

310b. *International Law:* Miss Leighton.

## Psychology

#### PROFESSORS:

MORTON EDWARD BITTERMAN, PH.D.,  
*Chairman*

RACHEL DUNAWAY COX, PH.D.

#### ASSOCIATE PROFESSORS:

DONALD ROBERT BROWN, PH.D.<sup>1</sup>

ROBERT SIMON DAVIDON, PH.D.

WILLIAM AUGUST WILSON, JR.,  
M.D., PH.D.

#### VISITING LECTURERS:

HENRY GLEITMAN, PH.D.

JOSEPH JULIUS GREENBAUM, PH.D.

#### LECTURERS:

RICHARD CHARLES GONZALEZ, PH.D.

DONALD HARTMANN BULLOCK, PH.D.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

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1. On leave of absence for the year 1960-61.



*Prerequisites.* Undergraduate training in Psychology is recommended, but outstanding applicants with training only in related fields may be accepted. Students who have not majored in Psychology as undergraduates usually will find it necessary to devote a substantial portion of the first year to undergraduate courses. All applicants residing in the United States at the time of the application must submit a score on the Miller Analogies Test.

*Major and Allied Subjects.* The Department offers broad training in Psychology, with opportunity for specialized experience in the principal areas of application. Work in Psychology may be coordinated with work in one of the following allied areas: Anthropology, Biology, Education, Mathematics, Philosophy, Political Science, Physics, and Sociology. Students interested primarily in Child Psychology normally major in Education.

*Language Requirements.* Candidates for the M.A. must pass an examination in one of the following languages: French, German, Russian. (Only one language is necessary because of the requirement in Statistics and Experimental Design.) Candidates for the Ph.D. must pass examinations in two of the three languages.

*Program and Examinations for the M.A.* Each new student may be asked to take an assessment examination in Psychology. If performance on this examination warrants, the student is admitted to graduate seminars. If it does not, the student is asked to complete his preparation at the undergraduate level. Sometime before final approval of the Master's paper, each candidate must pass a written examination in Statistics and Experimental Design. The Final Oral Examination, one hour in length, deals with the Master's paper and related topics.

*Program and Examination for the Ph.D.* Candidates are expected to devote a large portion of their time to supervised research. The Preliminary Examination consists of five written papers, one in each of the following areas: Sensation and Perception, Learning and Thinking, Personality and Social Psychology, Tests and Measurements, and History of Psychology. A qualifying examination in Statistics and Experimental Design precedes the Preliminary Examination. The Final Oral Examination deals with the dissertation and related topics. Students preparing for clinical work meet the same requirements as all other students

and in addition may devote one year to an internship in an approved setting.

#### SEMINARS AND GRADUATE COURSES

The needs of the students determine which seminars and graduate courses are offered each year. Those offered most often are listed below.

Mr. Bitterman:

*Comparative Psychology.*  
*Learning.*

Mr. Brown:

*Emotion and Motivation.*  
*Personality.*  
*Psychopathology.*  
*Social Psychology.*

Mrs. Cox:

*Advanced Clinical Evaluation.*  
*Problems in Child Development.*

Mr. Davidon:

*Advanced Statistics.*  
*Conceptual Processes.*  
*History of Psychology.*  
*Perception.*

Mr. Wilson:

*Physiological Psychology.*  
*Sensory Processes.*

#### SELECTED UNDERGRADUATE COURSES

- 201a. *Learning and Thinking*: Mr. Bitterman.
- 202b. *Psychological Testing*: Mrs. Cox.
- 204a. *Experimental Methods and Statistics*: Mr. Davidon.
- 205b. *Perception*: Mr. Davidon.
- 301a. *Physiological Psychology*: Mr. Wilson.
- 303a. *Psychology of the Normal Personality*: Mr. Brown.
- 303b. *Social Psychology*: Mr. Brown.
- 304b. *Psychology of the Abnormal Personality*: Mr. Wilson.
- 305b. *Comparative Psychology*: Mr. Bitterman.
- 307a. *History of Psychology*: Mr. Davidon.

# Russian

ASSOCIATE PROFESSORS: FRANCES DE GRAAFF, PH.D., *Chairman*  
GEORGE L. KLINE, PH.D.

INSTRUCTOR: RUTH PEARCE, PH.D.

Appointment to be announced

PROFESSOR OF ENGLISH BETTINA LINN, M.A.<sup>1</sup>

*Prerequisites.* An undergraduate major or minor in Russian with knowledge of Russian Literature and ability to read and speak Russian.

*Allied Subjects.* Any language or literature, European History, Political Science.

*Language Requirements.* French and German. In special cases the Department may accept other languages.

*Program and Examination for the M.A.* Three units of work in Russian or in Russian and an allied field. The Final Examination consists of a three-hour written examination and an oral examination of one hour.

*Examination for the Ph.D.* The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination.

## SEMINARS

Seminars offered are selected from the following. Normally the same seminar will not be given two years in succession.

Miss de Graaff:

*Serbo-Croatian.*

Mr. Kline:

*Russian Critics of the Nineteenth Century.*

*Poets of the Twentieth Century.*

Mrs. Pearce:

*History of the Russian Language.*

*Old Church Slavonic.*

To be announced:

*Pushkin and Lermontov.*

## SELECTED UNDERGRADUATE COURSES

201. *Readings in Russian Literature.*
302. *Pushkin and His Time:* Miss de Graaff.
303. *Russian Literature of the Twentieth Century:* Mr. Kline.

1. On sabbatical leave for the year 1960-61.

## Social Work and Social Research

*The Carola Woerishoffer Graduate Department  
of Social Work and Social Research*

PROFESSOR:	KATHERINE D. K. LOWER, PH.D., <i>Director of the Department</i>
ASSOCIATE PROFESSORS:	HERTHA KRAUS, PH.D. BERNARD ROSS, PH.D. EDMUND V. MECH, PH.D. LOUIS GOLDSTEIN, PH.D.
LECTURERS:	JEAN HARING, M.S.W. JEANNE POLLOCK, M.S.W. MARY ZENDER SMITH, M.S.S.
INSTRUCTORS:	JANE COLLINS KRONICK, PH.D. WILLIAM V. VOSBURGH, M.A.

Bryn Mawr awards the degrees of Doctor of Philosophy and Master of Social Service in the Graduate Department of Social Work and Social Research.\* The Department is open to qualified graduates in liberal arts of colleges or universities of recognized standing.

*Prerequisites.* Psychology and the social sciences, including Economics, Political Science, History, Sociology and Anthropology, provide basic preparation. At least one general course in each field is important, as well as concentration in one as a major field. A basic course in Statistics is also desirable. In general, applicants for the Ph.D. are expected to have completed work for a Master's degree, or its equivalent, in social work.

The program leading to the Ph.D. degree is designed primarily for social workers who wish to prepare for research, teaching and administration in the broad field of social welfare. The curriculum for the Ph.D. degree includes work in the three following areas of study: Social Welfare, the Social Sciences, and Research Methods.

The specific program of study is planned to meet the needs of the individual student, including course work in the Department of Social Work and Social Research and in other Departments

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\* The prerequisites and program required for the degree of Master of Social Service are described on pp. 33-34. The statement here refers only to the Ph.D. in Social Work and Social Research.

of the Graduate School, which would usually be Psychology, Sociology and Anthropology, Economics, Education and Child Development, or Political Science. The major field will be selected from the fields of social welfare or research. The allied field or fields may be selected from social welfare or from the social sciences.

*Major and Allied Fields.* The major and allied fields may be selected from the field of Social Work. At the same time, some work in one of the allied fields of Sociology, Psychology, Anthropology or Economics, selected with a view to its contribution to the major field of the student's interest, is required. For the degree, substantial work in Statistics is also required.

*Language Requirements.* By special action of the faculty, a reading knowledge of only one language is required for the Ph.D. in Social Work. The language required is French, but in special cases another language may be substituted.

*Program and Examinations.* The program of study is individually planned to cover major and allied fields. Seven units of work will normally be suggested as a minimum. The Preliminary Examination in major and allied fields consists of four written papers and an oral examination testing the candidate's general knowledge of the fields.

A *Bulletin* of the Department is issued biennially, containing descriptions of requirements and courses offered. A copy may be obtained by writing to the Director of the Department.

## Sociology and Anthropology

PROFESSOR:	FREDERICA DE LAGUNA, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSOR:	EUGENE V. SCHNEIDER, PH.D.
ASSISTANT PROFESSOR:	EDWARD B. HARPER, PH.D.

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

### ANTHROPOLOGY

*Prerequisites.* A good undergraduate preparation in Anthropology and/or Sociology. Some undergraduate training in His-

tory, or Psychology, or in another social science, is also desirable. Students whose undergraduate training is not entirely adequate may be required to take such undergraduate courses as may seem necessary. Under certain conditions advanced undergraduate courses may be taken for graduate credit.

*Major and Allied Subjects.* Students who specialize in Anthropology may be expected to do some work in Sociology. For other allied subjects, see the special requirements for the Ph.D. in Anthropology.

*Language Requirements.* Candidates for the M.A. or Ph.D. in Anthropology must offer two modern languages, preference being given to German as one of these.

*Program and Examination for the M.A.* The program consists of three units of work in seminars or advanced undergraduate courses arranged for seminar credit. One of these may be taken in Sociology. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

*Program and Examinations for the Ph.D.* All students are expected to take the equivalent of at least one year's graduate work at another institution approved by the Department. (For exchange arrangements with other institutions, see page 27.) The Preliminary Examination will consist of four three-hour written papers and an oral examination of one hour.

The Preliminary Examination for candidates for the *Ph.D. in Anthropology* will be in (1) Anthropological Theory and History of Anthropology, (2) the allied field within the Department, such as Sociological Theory, Comparative Social Institutions, etc., or an allied field outside the Department, such as Social Psychology, (3) and (4) two examinations in more specialized fields in Anthropology, such as Primitive Religion, Cultural Dynamics, Ethnography or Archaeology of one major Culture Area, etc. In addition, students will be expected to be familiar with the principles of two of the following subjects: Physical Anthropology and/or Human Paleontology, Prehistoric or American Archaeology, Linguistics. These requirements may be satisfied by courses taken at any institution approved by the Department, or competence may be tested by examination.

## SEMINARS AND GRADUATE COURSES IN ANTHROPOLOGY

Depending upon the needs of the students these may be offered either as full year courses (1 unit of credit), or as semester courses ( $\frac{1}{2}$  unit of credit). The seminars offered in 1960-61 will be:

Miss de Laguna:

*The American Indian in Literature* (Semester I).

*The American Indian: Methods of Ethnography* (Semester II).

Mr. Harper:

*Problems in Primitive Religion* (Semester I).

*Traditional Society in India* (Semester II).

## SELECTED UNDERGRADUATE COURSES

203a. *Primitive Culture*: Mr. Harper.

203b. *Primitive Society*: Mr. Harper.

301b. *Cultural Theory*: Miss de Laguna.

Also available at the University of Pennsylvania under the Reciprocal Plan are graduate courses and seminars in Anthropology and in Sociology. Students are also urged to join the Philadelphia Anthropological Society which meets once a month at the University of Pennsylvania Museum.

## SOCIOLOGY

*Prerequisites.* A good undergraduate preparation in Sociology, or some closely related social science is desirable. Students whose undergraduate training is not entirely adequate may be required to take certain undergraduate courses. Advanced undergraduate courses can usually be taken for graduate credit.

*Major and Allied Subjects.* Students will be expected to take some work in allied fields. In addition courses at the University of Pennsylvania in Sociology or allied fields may be taken for credit.

*Language and Statistics Requirements.* Candidates for the M.A. must offer one modern language and statistics. Candidates for

the Ph.D. must offer two languages; these will normally be German and French, except in special cases.

*Program and Examination for the M.A.* The program consists of three units of work. The Final Examination may consist of one four-hour written paper, or one three-hour written paper and an oral examination of one hour.

*Program and Examinations for the Ph.D.* All students are expected to have had, or to take, at least one year's graduate work at another institution approved by the Department, except in special cases. (For exchange arrangements with other institutions, see page 27.)

The Preliminary Examination for candidates for the Ph.D. will consist of four three-hour written papers and an oral examination of one hour. These examinations will be in (1) Sociological Theory, (2) Comparative Social Institutions, (3) an allied field, for instance in Anthropology, Social Psychology, Economics, Political Science, History, (4) a specialized subject within the field of Sociology. In addition, the student will be expected to be familiar with Statistics and the methods of Social Research.

#### SEMINARS AND GRADUATE COURSES IN SOCIOLOGY

One seminar a year will be given from among the following topics:

*Sociological Theory.*

*Social Institutions.*

*Theories of Social Change.*

*Sociology of Knowledge.*

*Industrial Sociology.*

#### SELECTED UNDERGRADUATE COURSES

Advanced courses in this department and in allied fields at Bryn Mawr and Haverford may be offered for credit under special conditions.

Also available at the University of Pennsylvania under the Reciprocal Plan are graduate courses and seminars in Sociology and allied fields.



## Spanish

DEAN OF THE

COLLEGE:

DOROTHY NEPPER MARSHALL, Ph.D.<sup>1</sup>

PROFESSOR:

FRANCISCO AYALA, *D. en D.*, *Chairman*

ASSISTANT

PROFESSOR:

WILLARD FAHRENKAMP KING, Ph.D.

INSTRUCTOR:

MIGUEL GONZALEZ-GERTH, M.A.

PROFESSOR OF

PHILOSOPHY:

JOSÉ MARIA FERRATER MORA, *Lic. F.L.*

*Special Requirements for Graduate Work*  
(for the general requirements, see pp. 28-34)

*Prerequisites.* An undergraduate major in Spanish; representative reading from Spanish Literature of the Middle Ages, Golden Age and Contemporary Period. Spanish-American Literature may be offered in addition.

*Allied Subjects.* Any literature, ancient or modern, including Mediaeval Latin Literature; European or Spanish-American History; Classical or Romance Philology.

*Language Requirements.* For the M.A. two romance languages other than Spanish, or one romance language and German. For the Ph.D. German and French; in special cases the Department may accept other languages. The Ph.D. candidate's preparation must give evidence of adequate knowledge of Latin; in cases when the student's preparation is insufficient she will have to include the study of Latin in her graduate program.

*Program and Examination for the M.A.* The program consists of two units of graduate work in Spanish and a third unit, graduate or undergraduate, in an allied field. Before admission to the Final Examination candidates must prove their ability to speak Spanish. The Final Examination consists of a three-hour written part and an oral of one hour.

*Examinations for the Ph.D.* The Preliminary Examination consists of four written papers, one of which must be taken in an allied field, and an oral examination. Suitable related fields

1. On sabbatical leave for the year 1960-61.

should be discussed as early as possible with the member of the Department with whom the candidate plans to work on her dissertation.

#### SEMINARS AND GRADUATE COURSES

The seminars are arranged to allow the widest possible choice for students over a two- or three-year period of study. Normally the same seminar will not be given two years in succession. Two from among the following will be given every year.

Mrs. King:

*Galdos* (Semester I and II).

A detailed study of Galdos as novelist and dramatist against the background of nineteenth century Spanish history and thought.

Mr. Ayala:

*The Mediaeval Castilian Epic* (Semester I).

A study of historical and literary problems surrounding the Castilian epic, with particular attention to the *Cantar de Mio Cid*.

*The Mediaeval Castilian Lyric* (Semester II).

The origins and development of Castilian Lyric poetry. An intensive study will be made of the *Libro de Buen Amor*.

#### SELECTED UNDERGRADUATE COURSES

- 302a. *Modern Essay in Spain and Spanish America*: Mr. Ayala.
- 302b. *The Spanish American Novel*: Mr. Ayala.
- [303. *Modern Novel in Spain*: Mrs. King.]
- 304a. *Drama of the Golden Age*: Mrs. King.
- 304b. *The Age of Cervantes*: Mrs. King.

## How to Get to Bryn Mawr

Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.

By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43), turning right at Pa. #23, which is 3.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues.

By air: From the Philadelphia International Airport take the airport limousine to Philadelphia and the Paoli Local to Bryn Mawr or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.





BRYN MAWR

THE GRADUATE SCHOOL 1960-1961

**UNDERGRADUATE COURSES**

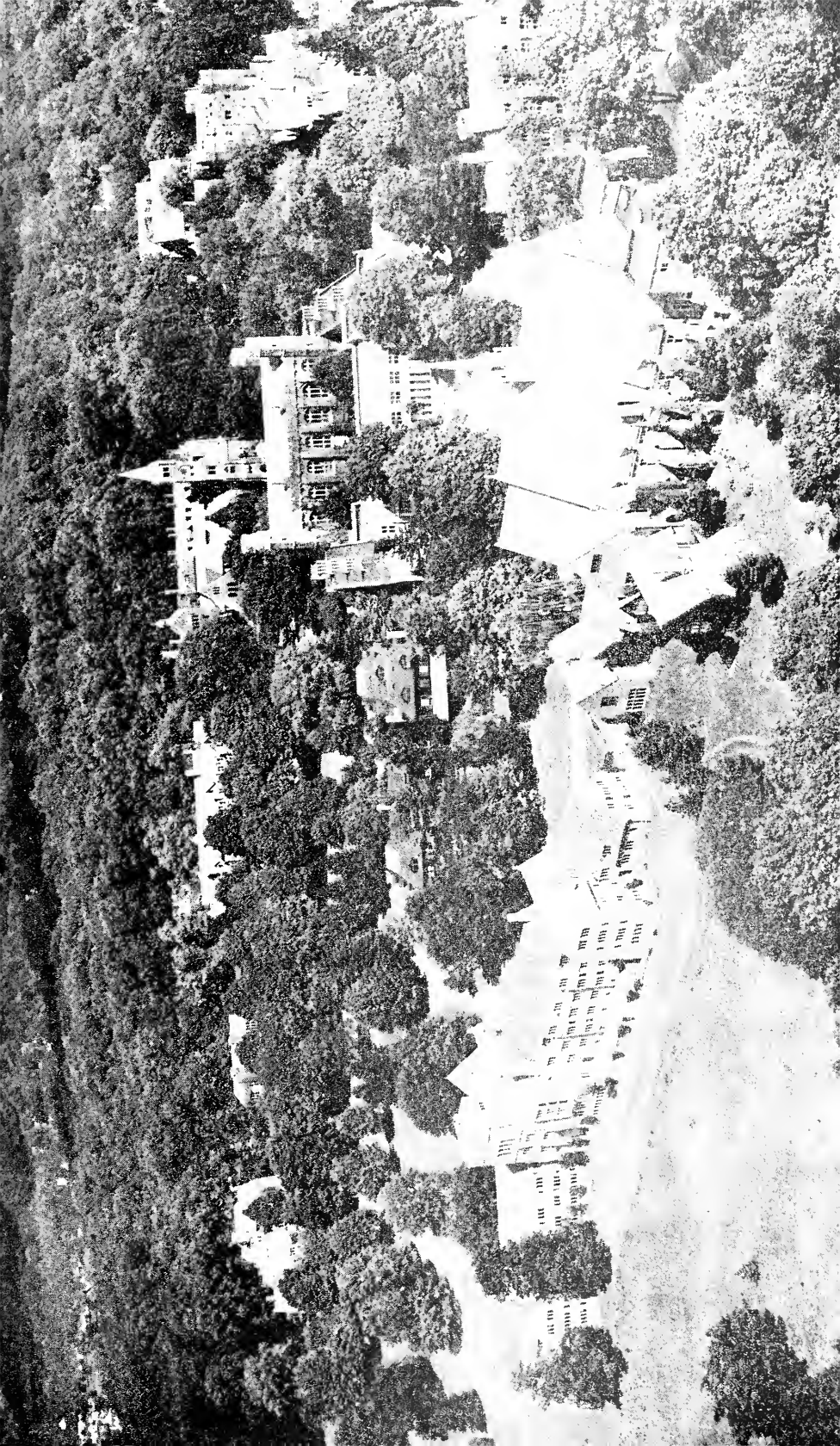
**BRYN MAWR**

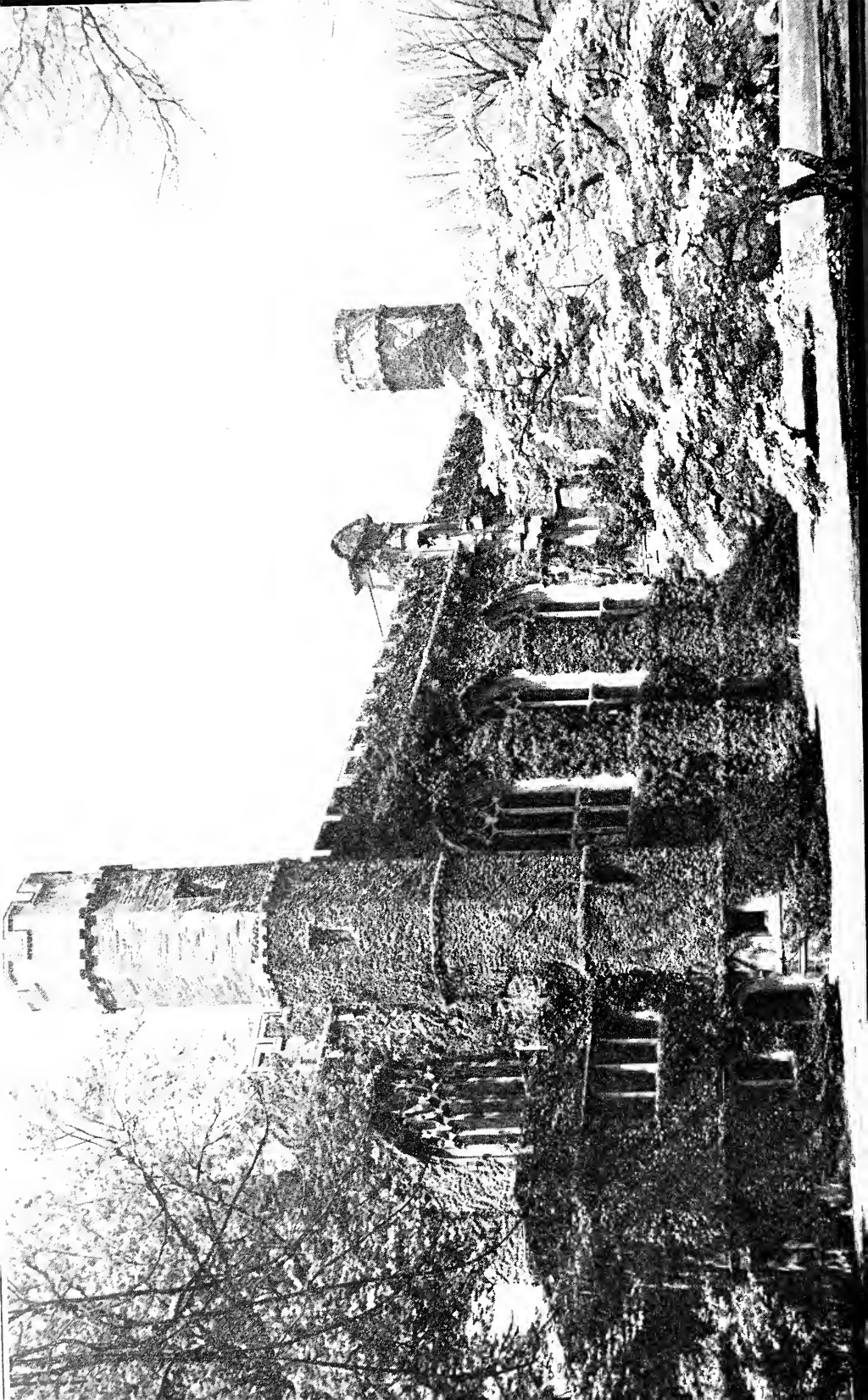
**COLLEGE CALENDAR**

**1960 | 1961**







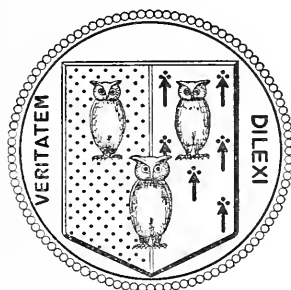


# Bryn Mawr College Calendar

## UNDERGRADUATE COURSES

ISSUE FOR THE SESSION OF

1960-1961



AUGUST 1960

Volume LIII

Number 3

VISITORS to the College are welcome, and when the College is in session student guides are available to show visitors the campus. The College offices are open Monday through Friday from nine until five and on Saturdays from nine until one. From mid-June until after Labor Day the offices are closed on Saturdays.

Whenever possible, visitors are urged to write in advance for appointments. Prospective students are encouraged to secure information about the College from local College Representatives, whose names and addresses are listed on pages 132-141.

### CORRESPONDENCE

The Post Office address is Bryn Mawr College, Bryn Mawr, Pennsylvania.

Correspondence regarding the following subjects should be addressed to:

The President

General interests of the College

The Dean

Academic work, personal welfare and health of the students

The Director of Admissions

Admission to the Undergraduate School and entrance scholarships

The Dean of the Graduate School

Admission to the Graduate School and graduate scholarships

The Director of Halls

Rooms in the halls of residence

The Comptroller

Payment of bills

The Director of the Bureau of Recommendations

Recommendations for positions and inquiries regarding students' self-help

The Alumnae Secretary

Regional Scholarships and loan fund

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BRYN MAWR COLLEGE CALENDAR. Published December, July, August and September by Bryn Mawr College, Bryn Mawr, Pa.

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1960	1961	1962
S M T W T F S	S M T W T F S	S M T W T F S
JULY	JANUARY	JANUARY
..... 1 2	1 2 3 4 5 6 7	.. 1 2 3 4 5 6
3 4 5 6 7 8 9	8 9 10 11 12 13 14	7 8 9 10 11 12 13
10 11 12 13 14 15 16	15 16 17 18 19 20 21	14 15 16 17 18 19 20
17 18 19 20 21 22 23	22 23 24 25 26 27 28	21 22 23 24 25 26 27
24 25 26 27 28 29 30	29 30 31 .....	28 29 30 31 .....
31 .....		
AUGUST	FEBRUARY	FEBRUARY
.. 1 2 3 4 5 6	..... 1 2 3 4	..... 1 2 3
7 8 9 10 11 12 13	5 6 7 8 9 10 11	4 5 6 7 8 9 10
14 15 16 17 18 19 20	12 13 14 15 16 17 18	11 12 13 14 15 16 17
21 22 23 24 25 26 27	19 20 21 22 23 24 25	18 19 20 21 22 23 24
28 29 30 31 .....	26 27 28 .....	25 26 27 28 .....
SEPTEMBER	MARCH	MARCH
..... 1 2 3	..... 1 2 3 4	..... 1 2 3
4 5 6 7 8 9 10	5 6 7 8 9 10 11	4 5 6 7 8 9 10
11 12 13 14 15 16 17	12 13 14 15 16 17 18	11 12 13 14 15 16 17
18 19 20 21 22 23 24	19 20 21 22 23 24 25	18 19 20 21 22 23 24
25 26 27 28 29 30 ..	26 27 28 29 30 31 ..	25 26 27 28 29 30 31
OCTOBER	APRIL	APRIL
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2 3 4 5 6 7 8	2 3 4 5 6 7 8	8 9 10 11 12 13 14
9 10 11 12 13 14 15	9 10 11 12 13 14 15	15 16 17 18 19 20 21
16 17 18 19 20 21 22	16 17 18 19 20 21 22	22 23 24 25 26 27 28
23 24 25 26 27 28 29	23 24 25 26 27 28 29	29 30 .....
30 31 .....	30 .....	
NOVEMBER	MAY	MAY
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6 7 8 9 10 11 12	7 8 9 10 11 12 13	6 7 8 9 10 11 12
13 14 15 16 17 18 19	14 15 16 17 18 19 20	13 14 15 16 17 18 19
20 21 22 23 24 25 26	21 22 23 24 25 26 27	20 21 22 23 24 25 26
27 28 29 30 .....	28 29 30 31 .....	27 28 29 30 31 .....
DECEMBER	JUNE	JUNE
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4 5 6 7 8 9 10	4 5 6 7 8 9 10	3 4 5 6 7 8 9
11 12 13 14 15 16 17	11 12 13 14 15 16 17	10 11 12 13 14 15 16
18 19 20 21 22 23 24	18 19 20 21 22 23 24	17 18 19 20 21 22 23
25 26 27 28 29 30 31	25 26 27 28 29 30 ..	24 25 26 27 28 29 30
		31 .....

# College Calendar

## 1960-1961

1960

### FIRST SEMESTER

- September 29 (*Thursday*). Halls of residence open to entering class at 8 A.M.
- October 1 (*Saturday*). Halls of residence open to all returning undergraduate students at 8 P.M.
- October 3 (*Monday*). Work of the 76th academic year begins at 8:45 A.M.
- November 23 (*Wednesday*). Thanksgiving holiday begins after last class
- November 28 (*Monday*). Thanksgiving holiday ends at 9 A.M.
- December 16 (*Friday*). Christmas vacation begins at 12:45 P.M.

1961

- January 3 (*Tuesday*). Christmas vacation ends at 9 A.M.
- January 20 (*Friday*). Last day of lectures
- January 23 (*Monday*). Collegiate examinations begin
- February 2 (*Thursday*). Collegiate examinations end

### SECOND SEMESTER

- February 6 (*Monday*). Work of the second semester begins at 8:45 A.M.
- March 24 (*Friday*). Spring vacation begins after last class
- April 4 (*Tuesday*). Spring vacation ends at 9 A.M.
- May 19 (*Friday*). Last day of lectures
- May 22 (*Monday*). Collegiate examinations begin
- June 2 (*Friday*). Collegiate examinations end
- June 6 (*Tuesday*). Conferring of degrees and close of the 76th academic year

*The Academic Schedule is listed at end of book.*

# The Trustees of Bryn Mawr College

J. EDGAR RHOADS, *President*

RICHARD MOTT GUMMERE

ELIZABETH GRAY VINING<sup>1</sup>

## *Vice-Presidents*

JOHN E. FORSYTHE  
*Treasurer*

AGNES BROWN LEACH<sup>2</sup>  
*Secretary*

J. TYSON STOKES  
*Assistant Treasurer*

MARGARET TYLER PAUL<sup>3</sup>  
*Assistant Secretary*

## *Trustees*

RICHARD MOTT GUMMERE

ELIZABETH GRAY VINING<sup>1</sup>

AGNES BROWN LEACH<sup>2</sup>

HENRY JOEL CADBURY

MILLICENT CAREY MCINTOSH<sup>4</sup>

JOHN E. FORSYTHE

J. EDGAR RHOADS

JOHN S. PRICE

C. CANBY BALDERSTON

ALLEN MCKAY TERRELL

FREDERIC C. SHARPLESS

AMOS JENKINS PEASLEE

JONATHAN E. RHOADS

# Board of Directors

HENRY JOEL CADBURY, *Chairman*

ELEANOR LITTLE ALDRICH<sup>5</sup>

RICHARD MOTT GUMMERE

## *Vice-Chairmen*

JOHN E. FORSYTHE  
*Treasurer*

AGNES BROWN LEACH<sup>2</sup>  
*Secretary*

J. TYSON STOKES  
*Assistant Treasurer*

MARGARET TYLER PAUL<sup>3</sup>  
*Assistant Secretary*

## *Directors*

RICHARD MOTT GUMMERE

J. TYSON STOKES

AGNES BROWN LEACH<sup>2</sup>

PHYLLIS GOODHART GORDAN<sup>6</sup>

MILLICENT CAREY MCINTOSH<sup>4</sup>

ALICE PALACHE JONES<sup>7</sup>

J. EDGAR RHOADS

ELEANOR MARQUAND DELANOY<sup>8</sup>

C. CANBY BALDERSTON

AGNES CLEMENT INGERSOLL<sup>9</sup>

FREDERIC C. SHARPLESS

MARY SIMPSON GOGGIN

ELIZABETH GRAY VINING<sup>1</sup>

*Alumnae Director, 1955-1960*

HENRY JOEL CADBURY

LELIA WOODRUFF STOKES<sup>10</sup>

JOHN E. FORSYTHE

*Alumnae Director, 1956-1961*

JOHN S. PRICE

BARBARA COLBRON

ALLEN MCKAY TERRELL

*Alumnae Director, 1957-1962*

AMOS JENKINS PEASLEE

JANE YEATMAN SAVAGE<sup>11</sup>

JONATHAN E. RHOADS

*Alumnae Director, 1958-1963*

KATHARINE ELIZABETH MCBRIDE

ANGELA JOHNSTON BOYDEN<sup>12</sup>

ELEANOR LITTLE ALDRICH<sup>5</sup>

*Alumnae Director, 1959-1964*

KATHARINE STRAUSS MALI<sup>13</sup>

*Alumnae Director, 1960-1965*

EDITH HARRIS WEST, *by invitation*<sup>14</sup>

*President of the Alumnae Association*



# Standing Committees of the Board of Directors for 1960

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- 
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  2. Mrs. Henry Goddard Leach
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  4. Mrs. Rustin McIntosh
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9. Mrs. C. Jared Ingersoll
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11. Mrs. Ernest C. Savage
12. Mrs. Willard N. Boyden
13. Mrs. Henry J. Mali
14. Mrs. Wm. Nelson West, III

# Faculty and Staff

ACADEMIC YEAR, 1960-1961

KATHARINE ELIZABETH MCBRIDE, PH.D. (Bryn Mawr College),  
LL.D., L.H.D., Sc.D., *President of the College*

DOROTHY NEPPER MARSHALL, PH.D. (Bryn Mawr College), *Dean  
of the College*<sup>1</sup>

ELEANOR A. BLISS, Sc.D. (Johns Hopkins University), Sc.D., *Dean  
of the Graduate School*

MABEL LOUISE LANG, PH.D. (Bryn Mawr College), *Acting Dean of  
the College and Professor of Greek*

ANNIE LEIGH BROUGHTON, M.A. (Bryn Mawr College), *Director  
of Admissions*<sup>2</sup>

MARGARET McCABE, M.A. (Bryn Mawr College), *Acting Direc-  
tor of Admissions*

MARGARET TYLER PAUL, A.B. (Bryn Mawr College), *Assistant to  
the President*

JANET MARGARET AGNEW, B.L.S., M.A. (University of Manitoba),  
*Librarian*

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of  
Physical Education*

ELIZABETH HUMESTON, M.D. (Cornell University), *College Physi-  
cian*

REGINA KATHARINE CRANDALL, PH.D. (University of Chicago),  
*Professor Emeritus of English Composition*

GRACE MEAD ANDRUS DE LAGUNA, PH.D. (Cornell University),  
*Professor Emeritus of Philosophy*

MAX DIEZ, PH.D. (University of Texas), *Professor Emeritus of  
German Literature*

CHARLES GHEQUIERE FENWICK, PH.D. (Johns Hopkins University),  
LL.D., *Professor Emeritus of Political Science*

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1. On sabbatical leave for the year 1960-61.

2. On leave of absence for the year 1960-61.

GRACE FRANK, A.B. (University of Chicago), *Professor Emeritus of Old French*

MYRA RICHARDS JESSEN, PH.D. (Bryn Mawr College), *Professor Emeritus of German*

HELEN TAFT MANNING, PH.D. (Yale University), LL.D., *Professor Emeritus of History*

CORNELIA LYNDE MEIGS, A.B. (Bryn Mawr College), *Professor Emeritus of English Composition*

FRITZ MEZGER, PH.D. (University of Berlin), *Professor Emeritus of Germanic Philology*

MARY HAMILTON SWINDLER, PH.D. (Bryn Mawr College), LL.D., *Professor Emeritus of Classical Archaeology*

ANNA PELL WHEELER, PH.D. (University of Chicago), Sc.D., *Professor Emeritus of Mathematics*

MARY SUMMERFIELD GARDINER, PH.D. (Bryn Mawr College), *Professor of Biology, Acting Secretary of the Faculty, 1959-1961*

HORACE ALWYNE, F.R.M.C.M. (Royal Manchester College of Music), *Professor Emeritus of Music and Visiting Professor*

FRANCISCO AYALA, *Doctor en Derecho* (University of Madrid), *Professor of Spanish*

ERNST BERLINER, PH.D. (Harvard University), *Professor of Chemistry*

L. JOE BERRY, PH.D. (University of Texas), *Professor of Biology*

ELEANOR A. BLISS, Sc.D. (Johns Hopkins University), Sc.D., *Dean of the Graduate School and Professor of Biology*

THOMAS ROBERT SHANNON BROUGHTON, PH.D. (Johns Hopkins University), *Professor of Latin*<sup>1</sup>

RHYS CARPENTER, PH.D. (Columbia University), Litt.D., *Professor Emeritus of Classical Archaeology and Visiting Professor*

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania), *Professor of Education and Psychology*

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1. On leave of absence and sabbatical leave for the year 1960-61.

- FREDERICA DE LAGUNA, PH.D. (Columbia University), *Professor of Anthropology*
- LINCOLN DRYDEN, PH.D. (Johns Hopkins University), *Professor of Geology*<sup>1</sup>
- JOSÉ MARIA FERRATER MORA, *Licenciado en Filosofía* (University of Barcelona), *Professor of Philosophy*
- FELIX GILBERT, PH.D. (University of Berlin), *Professor of History*
- STEPHEN JOSEPH HERBEN, B.LITT., PH.D. (Princeton University), *Professor of English Philology*<sup>2</sup>
- JOSHUA C. HUBBARD, PH.D. (Harvard University), *Professor of Economics*
- AGI JAMBOR, M.A. (Royal Academy of Budapest), *Professor of Music and Director of Ensemble Groups*
- MABEL LOUISE LANG, PH.D. (Bryn Mawr College), *Acting Dean of the College and Professor of Greek*
- RICHMOND LATTIMORE, PH.D. (University of Illinois), LITT.D., *Paul Shorey Professor of Greek*<sup>3</sup>
- MARGUERITE LEHR, PH.D. (Bryn Mawr College), *Professor of Mathematics*
- BETTINA LINN, M.A. (Bryn Mawr College), *Margaret Kingsland Haskell Professor of English*<sup>4</sup>
- ANGELINE HELEN LOGRASSO, PH.D. (Radcliffe College), *Professor of Italian*
- KATHERINE D. K. LOWER, PH.D. (University of Wisconsin), *Professor of Social Work and Social Research*
- BERTHE MARIE MARTI, PH.D. (Bryn Mawr College), *Professor of Latin*
- AGNES KIRSOPP LAKE MICHELS, PH.D. (Bryn Mawr College), *Professor of Latin*<sup>4</sup>

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1. On sabbatical leave, semester I, 1960-61.

2. On partial leave, semester I, sabbatical leave, semester II.

3. On leave of absence and sabbatical leave for the year 1960-61.

4. On sabbatical leave for the year 1960-61.

- WALTER C. MICHELS, PH.D. (California Institute of Technology), *Marion Reilly Professor of Physics*
- CHARLES MITCHELL, M.A., B.LITT. (Oxford University), *Richard M. Bernheimer Visiting Professor of History of Art*
- MILTON CHARLES NAHM, B.LITT., PH.D. (University of Pennsylvania), *Professor of Philosophy*
- MILDRED BENEDICT NORTHROP, PH.D. (Columbia University), *Professor of Economics*
- JANE MARION OPPENHEIMER, PH.D. (Yale University), *Professor of Biology*
- JOHN C. OXTOBY, M.A. (University of California), *Professor of Mathematics*<sup>1</sup>
- WILLIAM J. ROACH, PH.D. (University of Chicago), *Visiting Professor of Old French*
- CAROLINE ROBBINS, PH.D. (University of London), *Professor of History*<sup>2</sup>
- PAUL SCHRECKER, LL.D., PH.D. (University of Berlin), *Visiting Professor of Philosophy*
- ALEXANDER SOPER, III, M.F.A., PH.D. (Princeton University), *Visiting Professor of History of Art*
- ARTHUR COLBY SPRAGUE, PH.D. (Harvard University), *Mary E. Garrett Alumnae Professor of English Literature*
- K. LAURENCE STAPLETON, A.B. (Smith College), *Professor of English and Political Theory*<sup>3</sup>
- ISABEL SCRIBNER STEARNS, PH.D. (Bryn Mawr College), *Professor of Philosophy*
- LILY ROSS TAYLOR, PH.D. (Bryn Mawr College), LITT.D., *Professor Emeritus of Latin and Visiting Professor*
- EDWARD H. WATSON, PH.D. (Johns Hopkins University), *Professor of Geology*
- ROGER HEWES WELLS, PH.D. (Harvard University), *Professor of Political Science*

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1. On leave of absence for the year 1960-61.

2. On sabbatical leave for the year 1960-61.

3. On sabbatical leave and leave of absence for the year 1960-61.

MARY KATHARINE WOODWORTH, PH.D. (Bryn Mawr College),  
*Professor of English*

DOROTHY WYCKOFF, PH.D. (Bryn Mawr College), *Professor of  
Geology*

MORTON EDWARD BITTERMAN, PH.D. (Cornell University), *Asso-  
ciate Professor and Professor-elect of Psychology*

ROBERT L. GOODALE, B.MUS. (Yale University), A.A.G.O., *Asso-  
ciate Professor and Professor-elect of Music*<sup>1</sup>

PETER BACHRACH, PH.D. (Harvard University), *Associate Pro-  
fessor of Political Science*

MORTON SACHS BARATZ, PH.D. (Yale University), *Associate Pro-  
fessor of Economics*<sup>2</sup>

WARNER B. BERTHOFF, PH.D. (Harvard University), *Associate  
Professor of English*

DONALD ROBERT BROWN, PH.D. (University of California), *Asso-  
ciate Professor of Psychology*<sup>2</sup>

FREDERIC C. CUNNINGHAM, JR., PH.D. (Harvard University), *As-  
sociate Professor of Mathematics*

ROBERT SIMON DAVIDON, PH.D. (University of Pennsylvania),  
*Associate Professor of Psychology*

FRANCES DE GRAAFF, PH.D. (University of Leyden), *Associate  
Professor of Russian, on joint appointment with Haverford  
College*

ARTHUR P. DUDDEN, PH.D. (University of Michigan), *Associate  
Professor of History*

JAMES W. FOWLE, PH.D. (Harvard University), *Associate Profes-  
sor of History of Art*

ROSALIE C. HOYT, PH.D. (Bryn Mawr College), *Associate Pro-  
fessor of Physics*

HERTHA KRAUS, PH.D. (University of Frankfurt), *Carola Woeri-  
shoffer Associate Professor of Social Work and Social Research*

---

1. On sabbatical leave for the year 1960-61.

2. On leave of absence for the year 1960-61.

- HUGUES LEBLANC, PH.D. (Harvard University), *Associate Professor of Philosophy*
- GERTRUDE C. K. LEIGHTON, LL.B. (Yale University), *Associate Professor of Political Science*
- WILLIAM C. LOERKE, M.F.A., PH.D. (Princeton University), *Associate Professor of History of Art*
- MARIO MAURIN, PH.D. (Yale University), *Associate Professor of French*<sup>1</sup>
- EDMUND V. MECH, PH.D. (Indiana University), M.S.S. (Bryn Mawr College), *Associate Professor of Social Work and Social Research*
- MACHTELD JOHANNA MELLINK, PH.D. (University of Utrecht), *Associate Professor of Classical and Near Eastern Archaeology*
- EARL H. PRITCHARD, D. PHIL. (Oxford University), *Visiting Associate Professor of Chinese Civilization, on joint appointment with Haverford College and Swarthmore College*
- JOHN R. PRUETT, PH.D. (Indiana University), *Associate Professor of Physics*
- BERNARD ROSS, M.S.S.A. (University of Pittsburgh), PH.D. (University of Michigan), *Associate Professor of Social Work and Social Research*
- EUGENE V. SCHNEIDER, PH.D. (Harvard University), *Associate Professor of Sociology*
- CHRISTOPH E. SCHWEITZER, PH.D. (Yale University), *Associate Professor of German*
- GEORGE L. ZIMMERMAN, PH.D. (University of Chicago), *Associate Professor of Chemistry*
- ROBERT L. CONNER, PH.D. (Indiana University), *Assistant Professor and Associate Professor-elect of Biology*
- LOUIS GOLDSTEIN, PH.D. (University of Minnesota), *Associate Professor-elect of Social Work and Social Research*
- MELVILLE T. KENNEDY, JR., PH.D. (Harvard University), *Assistant Professor and Associate Professor-elect of Political Science*
- GEORGE L. KLINE, PH.D. (Columbia University), *Lecturer and Associate Professor-elect of Russian and Philosophy*

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1. On sabbatical leave, semester II, 1960-61.

ISABEL GAMBLE MACCAFFREY, PH.D. (Radcliffe College), *Assistant Professor and Associate Professor-elect of English*

WILLIAM AUGUST WILSON, JR., PH.D. (University of California),  
*Associate Professor-elect of Psychology*

RAYMOND F. BETTS, D.d'Univ. (University of Grenoble), PH.D.  
(Columbia University), *Assistant Professor of History*

ROBERT HAWES BUTMAN, M.A. (University of North Carolina),  
*Assistant Professor of English on the Theresa Helburn Fund,  
and on joint appointment with Haverford College*

ALEXANDER CAMBITOGLU, PH.D. (University of London), *Assistant  
Professor of Classical Archaeology*

MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor  
of German and Adviser to Foreign Students*

MICHEL GUGGENHEIM, PH.D. (Yale University), *Assistant Profes-  
sor of French*

DAVID JOSEPH HERLIHY, PH.D. (Yale University), *Assistant Pro-  
fessor of History*

SYLVIA W. KENNEY, PH.D. (Yale University), *Assistant Professor  
of Music*

PHILIP KOCH, PH.D. (Harvard University), *Assistant Professor of  
French*

FRANK BRYANT MALLORY, PH.D. (California Institute of Tech-  
nology), *Assistant Professor of Chemistry*

CHARLES MILLER, PH.D. (California Institute of Technology),  
*Assistant Professor of Physics*

HUGO SCHMIDT, PH.D. (Columbia University), *Assistant Professor  
of German*

JOSEPH VARIMBI, PH.D. (University of Pennsylvania), *Assistant  
Professor of Chemistry*

JAMES A. BRODERICK, A.M. (University of Chicago), *Assistant  
Professor-elect of English*

ROBERT B. BURLIN, PH.D. (Yale University), *Assistant Professor  
elect of English*



EDWARD B. HARPER, PH.D. (Cornell University), *Lecturer and Assistant Professor-elect of Anthropology*

WILLARD FAHRENKAMP KING, PH.D. (Brown University), *Lecturer and Assistant Professor-elect of Spanish*

JAMES E. WRIGHT, PH.D. (Brown University), *Assistant Professor-elect of German*

FRANCES BONDHUS BERLINER, PH.D. (Bryn Mawr College), *Part-time Lecturer in Chemistry*

GALIA S. BODDE (Far Eastern University), *Part-time Lecturer in Russian*

LOUIS DE BRANGES, PH.D. (Cornell University), *Lecturer in Mathematics*

DONALD HARTMANN BULLOCK, PH.D. (Columbia University), *Part-time Lecturer, Semester II, in Psychology and Post-Doctoral Fellow*

JACQUES CHARPIER, *Visiting Lecturer in French, Semester II*

ALFRED GEORGE FISCHER, PH.D. (Columbia University), *Visiting Lecturer in Geology, Semester I*

SARAH C. FLEMISTER, PH.D. (Duke University), *Part-time Lecturer in Biology*

HENRY GLEITMAN, PH.D. (University of California), *Visiting Lecturer, Semester II, in Psychology*

RICHARD C. GONZALEZ, PH.D. (University of Maryland), *Part-time Lecturer, Semester I, in Psychology and Post-Doctoral Fellow*

JOSEPH JULIUS GREENBAUM, PH.D. (University of California), *Visiting Lecturer, Semester I, in Psychology*

JEAN D. HARING, M.A. (Ohio State University), M.S.W. (University of Michigan), *Lecturer in Social Work and Social Research*

M. PAULINE JONES, M.A. (Middlebury College), *Lecturer in French*

MARY MAPLES, PH.D. (Bryn Mawr College), *Lecturer in History*

ETHEL W. MAW, PH.D. (University of Pennsylvania), *Part-time Lecturer in Education*

- SUSAN MAXFIELD, M.S. (Syracuse University), *Director of Phebe Anna Thorne School and Part-time Lecturer in Education*
- JEANNE C. POLLOCK, M.S.W. (University of Pennsylvania School of Social Work), *Part-time Lecturer in Social Work*
- LAURA ESTABROOK ROMINE, M.A. (Columbia University), *Part-time Lecturer in Economics*
- RICHARD A. SABATINO, PH.D. (University of Pennsylvania), *Visiting Lecturer in Economics*
- MARY ZENDER SMITH, M.A. (Lawrence College), M.S.S. (Smith College), *Part-time Lecturer in Social Work*
- HARRY C. AVERY, PH.D. (Princeton University), *Instructor in Greek*
- JANE SCHWARTZ BENJAMIN, PH.D. (Yale University), *Part-time Instructor in History*
- ANN EVANS BERTHOFF, M.A. (Radcliffe College), *Part-time Instructor in English*
- SANDRA M. BERWIND, A.B. (Wheaton College), *Part-time Instructor in English*
- MIGUEL GONZALEZ-GERTH, M.A. (University of Texas), *Instructor in Spanish*
- GABRIELLE S. HOENIGSWALD, M.A. (Bryn Mawr College), *Part-time Instructor in Latin*
- JANE COLLIER KRONICK, PH.D. (Yale University), *Instructor in Social Work and Social Research*
- FREDERICK G. LAYMAN, M.S. (Harvard University), *Instructor in Geology*
- LYDIA HALLE LENAGHAN, PH.D. (Bryn Mawr College), *Instructor in Latin*
- RAMONA T. LIVINGSTON, A.B. (William Jewell College), *Instructor in English*
- RUTH C. PEARCE, PH.D. (University of Pennsylvania), *Instructor in Russian*
- CATHERINE RODGERS, B.A. (Oxford University), *Instructor in English*
- ROSAMOND KENT SPRAGUE, PH.D. (Bryn Mawr College), *Part-time Instructor in Greek*

- KATRIN TAEGER, M.A. (Bryn Mawr College), *Part-time Instructor in German*
- BERNARD TOSCANI, PH.D. (University of Pennsylvania), *Instructor in Italian and French*
- ROBERT A. WALLACE, A.B. (Harvard University), *Instructor in English*
- BEATRICE YAMASAKI, M.A. (University of Hawaii), *Part-time Instructor in Philosophy*
- GERALD ACKERMAN, M.F.A. (Princeton University), *Part-time Instructor-elect in History of Art*
- ERNEST A. FREDRICKSMEYER, PH.D. (University of Wisconsin), *Instructor-elect in Latin*
- F. CLAUDETTE KEMPER, M.A. (Columbia University), *Part-time Instructor-elect in English*
- ROBERT SUDERBURG, M.MUS. (Yale University), *Instructor-elect in Music*
- WILLIAM W. VOSBURGH, M.A. (University of Southern California), *Instructor-elect in Social Work and Social Research*
- FRITZ JANSCHKA, *Akademischer Maler (Akademie der Bildenden Künste)*, *Artist in Residence*
- WILLIAM H. REESE, PH.D. (University of Berlin), *Director of Orchestra*
- ELIZABETH W. BANCROFT, A.B. (Vassar College), *Part-time Assistant in English*
- ELIZABETH E. BOOTH, M.A. (Bryn Mawr College), *Part-time Assistant in Music*
- LOIS-ELLEN G. DATTA, M.A. (Bryn Mawr College), *Part-time Assistant in Psychology*
- CHARLES EVERS, B.S. (Drexel Institute), *Part-time Assistant in Chemistry*
- MARJORIE FARLEY, M.A. (University of Chicago), *Part-time Assistant in Social Work and Social Research*
- MARION FORRESTER, B.S. (New York University), *Part-time Assistant in Economics*
- NANCY BLACKWOOD GILLESPIE, M.A. (Bryn Mawr College), *Part-time Assistant in Political Science*

- LEE ELLIS HORNE, A.B. (Bryn Mawr College), *Part-time Assistant in History of Art*
- GERTRUDE R. HORWITZ, M.R.E. (Jewish Theological Seminary), *Part-time Assistant in Philosophy*
- ANNE HUDOCK, A. B. (Boston University), *Part-time Assistant in Biology*
- RADHIKA JAYAKAR, M.A. (Bryn Mawr College), *Part-time Assistant in Philosophy*
- ANN K. KNUDSEN, M.A. (University of Pennsylvania), *Part-time Assistant in Classical Archaeology*
- PHYLLIS SELTZER LACHS, M.A. (Bryn Mawr College), *Part-time Assistant in History*
- JANICE LEVINE, A.B. (Wellesley College), *Part-time Assistant in History of Art*
- JANE R. MCCONNELL, PH.D. (Bryn Mawr College), *Part-time Assistant in Biology*
- MARILYN MCHENRY, A.B. (Pomona College), *Part-time Assistant in Education*
- SHARON MESSENGER, A.B. (College of Idaho), *Part-time Assistant in Biology*
- PATRICIA ONDERDONK, A.B. (Bryn Mawr College), *Part-time Assistant in Biology*
- DOROTHEA J. RHEA, M.A. (Bryn Mawr College), *Part-time Assistant in Mathematics*
- WILLIAM ROBERTS, B.A. (University of Maryland), *Part-time Assistant in Psychology*
- RICHARD SAKURAI, B.A. (Reed College), *Part-time Assistant in Physics*
- LAWRENCE VERBIT, A.B. (College of William and Mary), *Part-time Assistant in Chemistry*
- ILDIKO VON FENYES, M.A. (Bryn Mawr College), *Part-time Assistant in Physics*
- KAREN WIER, B.S. (University of Washington), *Part-time Assistant in Geology*

## Officers of Administration

MARIAN CARTER ANDERSON, B.S. (Simmons College), *Recorder of the College*

CAROL BIBA, A.B. (University of Wisconsin), *Director of Public Information*

LOUISE HODGES CRENSHAW, A.B. (Bryn Mawr College), *Director of the Bureau of Recommendations*

KATHERINE A. GEFFCKEN, M.A. (Bryn Mawr College), *Assistant Dean of the College*

PAUL W. KLUG, C.P.A., B.S. (Temple University), *Comptroller*

CHARLOTTE BRANDON HOWE, M.A. (Radcliffe College), *Director of Halls and Head Warden*

KATHERINE Y. MASELLA, A.B. (Bryn Mawr College), *Assistant to the Acting Director of Admissions*

CLARISSA WARDWELL PELL, *Executive Director of the Resources Committee*

HORACE T. SMEDLEY, *Superintendent of Buildings and Grounds*

## Library

JANET MARGARET AGNEW, M.A. (University of Manitoba), *Head Librarian*

PAMELA G. REILLY, M.S.L.S. (Drexel Institute), *Head of Circulation and Reference Department*

JANE WALKER, B.S. (Simmons College), *Head of Cataloguing Department*

ELIZABETH AMANN, M.L.S. (Rutgers University), *Assistant in Cataloguing Department*

KANTA BHATIA, M.S. (Simmons College), *Assistant in Cataloguing Department*

DOROTHY V. McGEORGE, B.S.L.S. (Drexel Institute), *Order Librarian*

YILDIZ VAN HULSTEYN, M.S.L.S. (Drexel Institute), *Librarian, West Wing*

LOIS E. WELLS, M.S.L.S. (Drexel Institute), *Assistant in Circulation Department*

## Foreign Students

MARTHA M. DIEZ, M.A. (Bryn Mawr College), *Assistant Professor of German and Adviser to Foreign Students*

## Halls of Residence

EMILY DUTROW, A.B. (Pennsylvania State University), *Warden of Merion*

CHARLOTTE GIRARD, M.A. (Bryn Mawr College), *Warden of Wyndham*

DULCIE GROVES, B.A. (University of Nottingham), *Warden-elect*

DIANTHA HAVILAND, M.A. (Bryn Mawr College), *Warden-elect*

KATHERINE HOOVER, B.MUS. (Eastman School of Music), *Warden of Pembroke East*

ANN K. KNUDSEN, M.A. (University of Pennsylvania), *Warden-elect*

JOANN McDONALD, M.A. (Ohio State University), *Warden of Rockefeller*

SHARON MESSENGER, B.S. (College of Idaho), *Warden of the Jane Batten House*

BERYL WILKINSON, M.A. (Bryn Mawr College), *Senior Resident of the Graduate Center*

JANE WILLIAMSON, M.A. (Bryn Mawr College), *Warden-elect*

## Health

ELIZABETH HUMESTON, M.D. (Cornell University), *College Physician*

FRIEDA W. WOODRUFF, M.D. (University of Pennsylvania), *Assistant College Physician*

HOWARD B. SMITH, M.D. (Jefferson Medical College), *Consulting Psychiatrist*

JOHN F. HOWKINS, M.D. (Columbia University, College of Physicians and Surgeons), *Consulting Psychiatrist*

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

## Physical Education

IRENE A. CLAYTON, M.S. (University of Wisconsin), *Director of Physical Education*

ETHEL GRANT, *Instructor in Physical Education*

GLORIA SCHMIDT, M.A. (New York University), *Instructor in Physical Education*

JANET A. YEAGER, *Instructor in Physical Education*

## Child Study Institute

RACHEL DUNAWAY COX, PH.D. (University of Pennsylvania), *Director*

ELIZABETH PRESTON, M.S.S. (Bryn Mawr College), *Social Caseworker*

ELIZABETH WHEELER, M.S.S. (Bryn Mawr College), *Social Caseworker*

CORNELIA T. BIDDLE, A.B. (Bucknell University), *Part-time Social Caseworker*

ELIZABETH EMLÉN, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*

*Bryn Mawr College*

BEATRICE SCHNEIDER, M.S.S. (Bryn Mawr College), *Part-time Social Caseworker*

ELSIE WAELDER, M.S.W. (Western Reserve University), *Part-time Social Caseworker*

LELIA BRODERSEN, M.A. (Temple University), *Psychologist*

ELEANOR BEATTY, M.A. (George Washington University), *Psychologist*

ANITA GRINNELL, M.S. (University of Pennsylvania), *Part-time Psychologist*

CONSTANCE GRANT, B.S. (University of Pennsylvania), *Remedial Reading Teacher*

MARGARET DEALY, M.D. (Cornell University Medical College), *Consulting Psychiatrist*

WILLIAM H. SISSON, M.D. (University of Vermont), *Consulting Psychiatrist*

HERMAN STAPLES, M.D. (Hahnemann Medical College), *Consulting Psychiatrist*

MARILYN McHENRY, A.B. (Pomona College), *Assistant*

## Phebe Anna Thorne School

SUSAN E. MAXFIELD, M.S. (Syracuse University), *Director*

EVE BRILL, B.S. (Teachers College, Columbia University), *Teacher*

EMILY W. DUTROW, A.B. (Pennsylvania State University), *Assistant Teacher*

GEORGIANNA ENGSTROM, A.B. (University of Minnesota), *Assistant Teacher*



## Introduction

**B**RYN MAWR COLLEGE was founded by a group of men and women belonging to the Society of Friends who were convinced that intelligent women deserve an education as rigorous and stimulating as that offered to men.

This concern about opportunity for women to study at the university level was first felt by Dr. Joseph Taylor, a New Jersey physician, who decided to give his estate to provide the land, the first buildings and the endowment for the new college. With much care Dr. Taylor chose the site, thirty-nine acres of land on a hill in Bryn Mawr, eleven miles west of Philadelphia. He supervised the erection of the first building and took part in formulating the plans that led to a new educational venture. This was the opening in 1885 of the first college for women with undergraduate instruction for the A.B. and graduate instruction for the M.A. and Ph.D. degrees in all departments.

The first president of Bryn Mawr College was James E. Rhoads, a retired physician and one of the Trustees responsible for the initial plans. The first dean was M. Carey Thomas, who devoted her life to securing for women the opportunity for higher education and the right to share in all the privileges and responsibilities of American citizenship. Miss Thomas succeeded to the presidency in 1893, after the resignation of Dr. Rhoads. In 1922, she was followed by Marion Edwards Park, already distinguished in the academic world for her scholarship in the classics and her ability as a teacher and administrator. The fourth president is Katharine Elizabeth McBride, who was elected to the presidency in 1942.

Since the early years of Bryn Mawr, the campus has grown from 39 to about 80 acres, new buildings have been added as required by additional students and by more complex undertakings in teaching and research, yet the College remains a compact unit for living and working.

Bryn Mawr has preserved the purpose and much of the tradition of its founders. It believes that intellectual enrichment and discipline provide a sound foundation for living. It believes in

the rights of the individual and in freedom to think and act as intelligent and responsible members of a democratic society.

By the terms of its charter Bryn Mawr College provides instruction in the liberal arts and sciences on both the undergraduate and graduate level. Members of the faculty usually combine graduate and undergraduate teaching. Teaching and research are found to complement each other, and the stimulation of investigation in the various fields of graduate study is reflected in all departments of undergraduate work. The undergraduate program emphasizes both depth and breadth of knowledge and understanding. No field is so broad that it cannot take advantage of the specialist's deep understanding; no specialty is so obscure that it may not profit from a breadth of perception.

Believing that a small college provides the most favorable opportunity for the students to participate actively in their own education, Bryn Mawr College limits the number of undergraduates to approximately six hundred students. And since diversity in background and training serves not only to stimulate discussion but also to develop an intelligent understanding of such diversity, the undergraduate enrolment includes students from various types of schools, private and public, foreign as well as American. The whole group, both graduate and undergraduate, is composed of students from all parts of the United States as well as students from many foreign countries.

The resources of Bryn Mawr as a small residential college are augmented by its participation with Haverford College and Swarthmore College in a plan which coordinates the facilities of the three institutions while preserving the individual qualities and autonomy of each.

Bryn Mawr College sponsors a broad cultural program which supplements the curriculum and enriches its community life. Various lectureships bring scholars and other leaders in world affairs to the campus for series of public lectures and for classes and conferences with the students. Such opportunities are provided by the six-week residence of the Mary Flexner Lecturer in the Humanities and of the Anna Howard Shaw Lecturer in the Social Sciences, and by various individual lecturers in many of the departments of the College. Each year a series of lectures on current national and international problems is arranged by the Undergraduate Alliance for Political Affairs. The musical, dra-

matic and dance productions of the College are directed and arranged by the appropriate student organizations, often in co-operation with their counterparts in Haverford College, and with professional assistance from members of the faculty and staff. The Mrs. Otis Skinner Theater Workshop provides facilities for experimental theater work and a studio for painting and sculpture, where guidance and criticism are provided by the artist-in-residence.

Student organizations have complete responsibility for the many aspects of student activity. The large associations, to which every student belongs, provide a framework in which individuals and smaller groups function. The Self-Government Association legislates in matters of social and personal conduct, and its elected Executive Board has full responsibility for the executive and judicial functions of the organization. Through their Self-Government Association, the students share with the faculty the responsibility for the administration of the Academic Honor System. The Undergraduate Association coordinates the activities of the many specialized clubs and societies which are open to all and which provide opportunities for critical and creative efforts. The Interfaith Association with the guidance of the Committee on Religious Life of the Board of Directors and members of the Faculty plans the Sunday Services and takes the responsibility for giving students an opportunity to pursue and extend their religious interests. The Alliance for Political Affairs sponsors lectures and a series of groups organized for discussion or action. The Bryn Mawr League concerns itself with problems of social welfare and various branches of social service to the community at large, and the Athletic Association plans the extra-curricular athletic program.

Opportunity for the cultivation of clear thinking and informed reasoning, for exercise in the privileges and responsibilities of community life, and for practice in the critical and creative arts should thus be part of the experience of the undergraduate student at Bryn Mawr. As she continues through the four undergraduate years, she should begin to know too the personal satisfactions and rewards that are the common heritage of scholars.

# Admission

**B**RYN MAWR COLLEGE is interested in candidates of character and ability, who wish a liberal college education and are prepared for college work by a sound education in school. The College has found highly successful candidates among students of varied interests and talents from a wide range of schools and regions in the United States and abroad.

In its consideration of candidates the College looks for evidence of ability in the student's high school record, her rank in class and her College Board tests, and asks her high school principal for an estimate of her character, maturity and readiness for college.

The Director of Admissions welcomes correspondence and interviews with candidates, their parents and school advisers. Representatives of the College and of the Alumnae Association and Alumnae Information Chairmen in various sections of the country are glad to interview candidates. Names and addresses may be secured from the Admissions Office.

## PROGRAM OF SECONDARY SCHOOL STUDIES

Candidates are expected to complete a four-year secondary school course. The program of studies providing the best background for college work includes English, languages and mathematics carried through most of the school years and, in addition, history and a laboratory science. A school program giving excellent preparation for study at Bryn Mawr would be, for example, as follows: English grammar, composition and literature throughout four years; Mathematics, emphasizing basic algebraic, geometric and trigonometric concepts and deductive reasoning; a good foundation in one modern language and in Latin or Greek; some work in History and at least one course in science, preferably Biology, Chemistry or Physics. Elective subjects might be offered in, for example, History of Art, History of Music or Biblical studies to make up the total of 16 credits generally recommended for admission to the College.

Since school curricula vary widely, the College is fully aware that many applicants for admission will offer programs that differ from the one described above. The College is glad to consider applications from students whose schedule of courses has been different, provided that continuity in the study of basic subjects has been maintained.

## APPLICATION FOR ADMISSION

Students are advised to apply for admission to Bryn Mawr before the end of the junior year in high school. Early registration allows time for consultation about school programs and assures the student of receiving up-to-date information about the College. Admitted candidates are assigned rooms in order of date of registration.

*Only in exceptional circumstances will applications to the freshman class be accepted after January 31 of the student's senior year.*

Application forms may be obtained from the Director of Admissions, Bryn Mawr College, Bryn Mawr, Pennsylvania. A fee of \$15 must accompany each application and is not refundable. Application does not insure admission.

## ENTRANCE TESTS

The Scholastic Aptitude Test and three Achievement Tests of the College Entrance Examination Board are required of all candidates with the exception of students who have been admitted to the universities of other countries. The Aptitude Test should be taken in December or January of the senior year in secondary school, and the Achievement Tests in March of that year. Bryn Mawr prefers that candidates offer Achievement Tests in English, in a foreign language, and in one of the following: Social Studies, one of the sciences, or in Intermediate or Advanced Mathematics. Bryn Mawr does not require the English Writing Sample Test offered by the College Entrance Board. A student taking the Writing Sample for another college, however, should have the sample sent to Bryn Mawr. No special preparation, other than work well done in a good school, is required for successful performance on these tests. A trial run of the Scholastic Aptitude Test in March or May of a student's junior year is advised. Candidates will be notified in mid-May of the senior year as to whether or not they will be admitted to the College.

*Candidates are responsible for registering with the College Entrance Examination Board for the tests. Information about the tests, test centers, fees and dates may be obtained by writing to College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey, or P.O. Box 27896, Los Angeles 27, California.*

**EARLY DECISION PLAN**

A student who is applying for admission to Bryn Mawr College only, and to no other college, will be sent an earlier notice (about December 1) as to the action taken on her application, provided she follows the plan outlined below:

1. She must be recommended by her school as a strong candidate and must take her *final* Scholastic Aptitude and three Achievement Tests (English and any two others) in March or May of the junior year.
2. After her school has reviewed the results of these tests together with her three-year high school record, she must file before October 1, in addition to a regular registration, a statement obtained from the College that she is a candidate under the Early Decision Plan.
3. She will be notified by the College in early December (1) that she will be admitted to Bryn Mawr the following autumn, provided her record continues to be good, or (2) that she is advised to transfer to the regular plan for admission, repeating the Scholastic Aptitude Test and three Achievement Tests in the spring of her senior year, and filing an application with at least one other college, or (3) that she should withdraw her application to Bryn Mawr.
4. A student who has been assured of admission by December 1 will be asked to make a deposit of \$200 by February 1 if she wishes to reserve a place in residence at Bryn Mawr College. This deposit will be deducted from her first semester bill.

**ADVANCED PLACEMENT**

Students who have carried advanced work in school may, after consultation with the Dean and the departments concerned, be admitted to one or more advanced courses in the freshman year if they have made honor grades on the Advanced Placement Tests of the College Entrance Examination Board. These tests are given at Board centers in May. Students should also see the Dean of Freshmen about the advisability of taking placement tests given by the College during Freshman Week.

**TRANSFER AND FOREIGN STUDENTS**

Students are admitted on transfer from American and foreign colleges and universities approved by the College. To be ad-

mitted on transfer, a student must have an excellent school record and, in college work, at least a high "B" average. A transfer applicant should submit to the College:

1. A letter explaining why she wishes to transfer and her plans for the major subject.
2. A current catalogue of her own college, in which she has marked the courses taken.
3. Transcripts of her high school and college courses.
4. Official test reports from the College Entrance Examination Board on the Scholastic Aptitude Test and three Achievement Tests if the candidate has taken them previously.

Transfer candidates who have not taken these tests will be required to take only the Scholastic Aptitude Test in the March or May series. Information concerning this test and applications to take it may be obtained from the College Entrance Examination Board. (For address see page 27.)

Foreign students may substitute for the College Board tests evidence that they have been admitted to universities in their own countries. Those whose native language is not English must also present credentials attesting to proficiency in English.

No credit will be given for work done elsewhere until the student has successfully completed a year's work at Bryn Mawr. To qualify for the A.B. degree, transfer students must complete two years of study here. Students of other colleges or universities who have failed to meet the prescribed standards of academic work, or who have been put on probation or suspended or excluded, will under no circumstances be admitted.

#### NON-MATRICULATED STUDENTS

Women over twenty-five years of age may be admitted as non-matriculated students. They are called "Hearers" and may take undergraduate courses without a matriculation examination after furnishing proof that they have at some time pursued the studies required for matriculation. Hearers are clearly differentiated from regularly matriculated students and must obtain permission from each instructor to attend classes, laboratories and examinations. They are not eligible for degrees and may receive only such certificates of collegiate study as their instructors see fit to give. They are charged the full tuition fee. No other special students are admitted to undergraduate courses.

# Academic Facilities and Residence

## THE LIBRARY

THE M. CAREY THOMAS LIBRARY, containing about 275,000 volumes, is equipped to serve advanced graduate students and faculty as well as undergraduates. It is both a research and a study library. Periodicals in all subjects, of which about one thousand are currently received, contribute materially to the value of the collection.

The open-shelf system provides free access to the stacks. The Reference Room and Periodical Room make readily available standard works of reference and current periodicals.

The Quita Woodward Memorial Room has been planned for recreational reading. The collection provided for this purpose, now numbering about two thousand volumes, includes recent books in literature, art, religion and current affairs as well as many classics.

In the Rare Book Rooms, there are early printed books, manuscripts, first editions, fine press books, fine illustrated editions and association copies. Exhibitions of items selected from the library's own resources and of material lent by friends of the Library are held at intervals during the academic year. Here also is the Marjorie Walter Goodhart Mediaeval Library, a collection of incunabula given by Howard L. Goodhart that numbers over nine hundred volumes. Consisting mainly of philosophical and theological works of the fifteenth century, it occupies a significant place among college library collections.

A large Reading Room modeled after the Great Hall in Wadham College, Oxford University, has individual desks for undergraduate students. Additional work space is available in the Reserve Book Room, the Reference Room, the Art Study and the carrels in the West Wing. Twelve seminar rooms are reserved for graduate students.

Haverford and Swarthmore Colleges and the libraries in Philadelphia are generous in making their resources available to



students. The Philadelphia Bibliographical Centre and Union Library Catalogue situated at the University of Pennsylvania enable the student to locate easily the material in approximately one hundred and seventy-five libraries in the Philadelphia metropolitan area.

Each of the science departments at Bryn Mawr has its own library, with adequate reading space providing ready accessibility to bound and current numbers of scientific journals, standard reference books and modern texts.

### ART MUSEUM AND SLIDE COLLECTION

The collection of slides used in the Departments of Classical and Near Eastern Archaeology and History of Art comprises some 40,000 items, representing all fields of Western and Oriental art from prehistoric times to the present. It is supplemented by a collection of 35,000 photographs and color reproductions.

A small but valuable group of original works of art, available for study, includes Greek and Roman vases, ancient coins, sculpture, Oriental pottery and scrolls, prints, and modern American and European paintings. The Ella Riegel Museum of Classical Archaeology houses the Densmore Curtis Collection presented by Clarissa Dryden, part of the Hoppin Collection, the Elizabeth Washburn King Collection of Classical Greek coins, and the Aline Abaecherli Boyce Collection of Roman Republican silver coins, as well as various gifts from friends of the College. For Far Eastern study the Chapin Collection of books, paintings, calligraphy, textiles and ceramics contains material from Korea as well as from China and Japan. Western art is variously represented by several small collections, including the Howard L. Gray Collection of Modern Prints and the Neuberger Collection of Contemporary American Paintings.

### LABORATORIES

The Departments of Chemistry and Geology have their laboratories, libraries and classrooms in the Marion Edwards Park Hall. The Department of Biology is located in a new building adjoining Park Hall. This is the second of three buildings planned to provide in one unified group ample space and modern facilities for the natural sciences and mathematics. Funds

are being raised so that it will be possible to construct the building for Physics and Mathematics in the near future.

Physics, Mathematics and Psychology now occupy Dalton Hall, which will be released to provide for other departments when the Science Center is completed.

Both Dalton and the Science Center have facilities for graduate as well as undergraduate students. In addition to the usual equipment, the science departments have special apparatus and instruments needed by faculty and graduate students in particular research projects. On occasion this equipment is made available to advanced undergraduates working on honors problems.

In the present Science Center there are new laboratories for the use of radioactive materials, a glass-blowing shop, and a laboratory for microphotography. In Dalton Hall there is a machine shop with an expert machinist in charge. There is also a student shop at the disposal of graduate students in Physics and seniors working on honors problems. In addition, there is a modest hot laboratory in which radioactive samples may be processed in connection with the programs of the various departments.

Each of the science departments has its own library including the appropriate scientific journals. The Geology Department also has over 25,000 maps on deposit from the United States Army Map Service. The Department's large collection of minerals has been greatly increased recently by the gift from George and Henry Vaux of the famous Vaux collection.

## Residence

### HALLS OF RESIDENCE

There are on the campus eight halls of residence, which provide full living accommodations for fifty to eighty-five students each, and three smaller halls, one of which is used as a language house for upperclassmen. Denbigh Hall, Merion Hall, Pembroke East, Pembroke West and Radnor Hall are named for counties in Wales, recalling the tradition of the early Welsh settlers of the area in which Bryn Mawr is situated. Rockefeller Hall is named for its donor, John D. Rockefeller, and Rhoads North and South for the first president of the College, James E. Rhoads. Each hall

is in the charge of a resident warden, an instructor or graduate student, who is also a member of the Dean's staff and, like the Dean, is interested in all aspects of the student's welfare and her progress in college.

Although the College offers a variety of living accommodations, most students have single rooms. Some suites and double rooms are available. For all the rooms the College provides the necessary furniture, but students are expected to supply their own rugs and curtains and any other accessories they may desire.

Each of the large halls is a complete residence unit, with its kitchen and dining room, except Pembroke East and West and Rhoads North and South, which have common kitchens and dining rooms for the two wings. There are both large and small public rooms in every hall, where students may entertain their guests and gather together for study or recreation. The maintenance of the hall is under the direction of a Hall Manager who, under the supervision of the College Dietitian, is also responsible for the preparation and serving of the meals. It is not possible to arrange for the cooking or serving of special foods or diets in the halls of residence.

### RULES FOR RESIDENCE

Residence in the college buildings is required of all undergraduates except those living with their families in Philadelphia or the vicinity. Because of the great demand for rooms married students, except in unusual cases, are not admitted to residence.

A student enrolled in the College who plans to be married must inform the Dean of her intentions well in advance of the date of her marriage and must make arrangements for living that meet with the Dean's approval. *Any student who marries during her college career without previously informing the Dean of her plan will not be permitted to remain in the College.*

The College maintains its halls of residence in order to provide simple, comfortable living for its students. It expects students to respect its property and the standards on which the halls are run. A printed statement of residence regulations is given each student for her guidance during the academic year. The College makes every effort to keep the residence charge low; the present rates are possible only because the students have

agreed to assume the major responsibility for keeping their rooms clean and in order, thus permitting a reduction in service. Failure on the part of a student to meet the requisite standard in the care of her room may cause the College to refuse her residence the following year.

All the halls are closed during the Christmas vacation; one hall is kept open during the spring vacation and here undergraduates may occupy rooms at a fixed rate per day. A student not going to her home for either vacation, and not staying in the hall kept open during spring vacation, must submit her plans for the holiday to the Dean for approval and must register her address with the warden of her hall.

### NON-RESIDENT STUDENTS

Students who live with their families in Philadelphia and the vicinity have at their disposal a room in the Library where lockers are provided. Their college mail and notices about campus activities are sent there. Rooms in Goodhart Hall for teas and special occasions are also available on request. The warden of one of the halls of residence serves as warden to the non-residents.

When space permits, non-resident students may make arrangements with the Director of Residence to have meals in the residence halls. Meals are also served on campus at the College Inn.

Non-resident students are liable for all undergraduate fees except those for residence in the hall. The non-resident Infirmary fee of \$15 entitles them to medical examination and consultation with the College Physician. For health fees, see page 40.

*Non-Resident Enrolment Fee.* A non-resident student who wishes to enroll for the following year must make a deposit of \$25 not later than June 1. This deposit will be credited against the tuition charge.

# Fees

## TUITION

THE tuition fee for all undergraduate students, resident and non-resident, and for hearers is \$1250 a year. The fee is payable on receipt of the bill sent in October. No reduction or refund of the tuition fee will be made on account of absence, illness, dismissal, or for any other reason.

The average cost of teaching each undergraduate student is about \$2250 a year. The difference must be met from income on endowment and from private gifts. Contributions from parents able and willing to pay the additional sum or part of it are most welcome and help to meet expenses of instruction.

## RESIDENCE

The charge for residence is \$1150, \$1250 or \$1350, according to the size and location of the student's room or rooms. There is an additional fee of \$50 for residence in a language house. The residence fees are payable as follows:

\$1150—payable \$575 in October, \$575 in February

\$1250—payable \$625 in October, \$625 in February

\$1350—payable \$675 in October, \$675 in February

*Application for Residence.* A student in residence, who wishes to apply for a room for the following year, must make an application for a room and accompany it with an application fee of \$10. This fee will be credited against the residence charge if the room assigned is occupied by the applicant; it will not be refunded in any circumstance. Each student enrolled for the following year must make an additional deposit of \$40 not later than June 1. This deposit will also be credited against the residence charge. It will be returned if the student withdraws from College before June 15; it will not be returned if she withdraws later than June 15.

New students applying for residence will be billed \$50 in the spring. This \$50 will be credited against the residence charge, but it will not be returned in case of withdrawal after June 15.

New students assured admission under the Early Decision Plan will be asked to make a room deposit of \$200 by February 1.

An applicant who, after having reserved a room, fails to cancel her reservation by August 1 (even though she does not occupy the room at all or vacates it during the college year) prevents some other student from obtaining accommodation and consequently admission to the College. Therefore, unless formal notice of withdrawal of application for the ensuing academic year is received by the Dean of the College by August 1, the applicant is responsible for the residence charge (based upon the room assigned to her) for the whole year, or if a definite room assignment has not been made, the applicant is responsible for the minimum residence charge of \$1150, subject to an allowance for the cost of food and a further allowance if the College re-rents the room to a student not previously resident. The applicant is not entitled to dispose of the room.

*Reduction of Charges for Absence from College.* In case of illness or withdrawal from the College for a period of six consecutive weeks or longer there will be a reduction in the charge for residence (representing the reduced expense to the College for food), provided written notice is given to the Dean of the College at the time of withdrawal, or, in the case of illness at home, as soon as possible. Verbal notice to wardens or instructors is not sufficient to secure this reduction.

### SUMMARY OF MAJOR EXPENSES

For resident students, tuition and residence: \$2400, \$2500, or \$2600 according to the type of accommodation.

For non-resident students, tuition: \$1250.

#### *Minor Fees and Charges*

Laboratory courses (or, in Geology, field work) for materials and apparatus:

One course of 2 hours or less a week .....	\$ 7.50	} a semester
One course of more than 2 hours a week .....	15.00	
Two courses of more than 2 hours a week .....	25.00	
Three courses of more than 2 hours a week .....	30.00	
Residence in a language house .....	50.00	a year
Graduation fee (payable in the senior year) .....	20.00	
Health Insurance (Students' Reimbursement Plan) .....	15.00	a year
Infirmary fee for non-resident students .....	15.00	

Bills will be rendered by the Comptroller at the beginning of each semester. Students whose fees and charges are not paid before November 1 in the first semester and before March 1 in the second are not permitted to continue in residence or to attend their classes. The Tuition Plan is available for parents who prefer to pay fees in monthly instalments.

# General Information

## STUDENT ADVISING

THE Deans are responsible for the general welfare of undergraduates, and students are free to call upon them for help and advice on academic or more general problems. The Dean of the College and the Assistant Dean each advise two classes. The warden, the college officer in charge of each residence hall, is a member of the Dean's staff and stands ready to assist students. The College Physician, the consulting psychiatrists and vocational advisers are also available to all students. The deans and the wardens will always give students information about appointments with these specialists.

For freshmen, the College provides a special period of orientation. Freshmen are asked to come into residence three days before the College is opened to upperclassmen. The wardens of the various halls and a committee of upperclassmen welcome them and are available to answer questions and give advice. The freshmen have interviews with the President or the Dean of the College and consult with the deans on registration of courses. New students also take placement tests and a physical examination. To acquaint them with the many other aspects of college life, activities are sponsored by the undergraduate organizations.

## ACADEMIC STANDARDS AND REGULATIONS

Faculty rules governing academic work and the conduct of courses are stated in the "Academic Rules for Undergraduate Work." Rules concerning the Academic Honor System and student conduct are stated in the Self-Government Handbook.

Each student's academic work must be of sufficiently high quality to meet the academic standards set by the College. The Senate of the College, composed of one faculty member from each department, reviews the records of those students whose work has fallen below the required standard. In such cases the Senate may set specific requirements to be met by the student concerned and may also curtail privileges. In extreme cases the Senate may recommend exclusion from college.

Integrity of all work is demanded of every student. Information about the Academic Honor System dealing with the conduct of examinations, written quizzes, and other written work

is given to all entering students, who must sign a statement that they have read, understood and accepted the rules. Any infraction of these regulations or any action contrary to their spirit constitutes an offense. Infractions are dealt with by an Administrative Board under the chairmanship of the President of the College. The members of the board are the four college-elected members of the Executive Board of the Bryn Mawr Students' Association for Self-Government, three members of the faculty and the Dean of the College or the Assistant Dean.

#### ATTENDANCE AT CLASSES

Regular attendance at classes is expected. Responsibility for attendance rests solely with each student. When the quality of a student's work is affected in any way by absence from class, she will be warned in writing by the Dean. If she continues to cut after the warning, she will be dropped from the course and reported to the Senate. A student who is dropped from two courses will be suspended from the College, by rules of the Senate, for the remainder of the semester.

Absences for health or other urgent reasons are excused by the Dean, but any work missed must be made up. After a brief absence the student should consult her instructor about making up the work. In the case of a prolonged absence the Dean must be consulted as well as the instructor. If it seems probable to the Dean that a student's work may be seriously handicapped by the length of her absence, she may be required to drop one or more courses. Any student absent for more than twenty-five consecutive class days will generally be required to drop a course.

#### EXCLUSION

The College reserves the right to exclude at any time a student whose conduct or academic work is unsatisfactory. In such cases the fees due or already paid to the College will be neither refunded nor remitted in whole or in part.

#### HEALTH

An extensive program, including periodic physical examinations and regular work during the first two years in the Department of Physical Education, has been established to help students develop and maintain optimum conditions of health. Students receive clinic and hospital care in the College Dispensary and Infirmary, where the College Physician is in daily attendance.



The College maintains a modern twenty-two bed infirmary staffed by five registered nurses and a secretary-technician. The Bryn Mawr Hospital and other excellent hospitals in nearby Philadelphia offer additional medical and surgical facilities.

The College physicians and psychiatrists may be consulted by the students without charge. Specialists practicing in Bryn Mawr and Philadelphia serve as consulting physicians to the College; the student must meet the expense if consultation is required. No student while in residence should consult an outside physician without previously informing the College Physician. Any student who leaves the campus for reasons of health must notify the Dean, the College Physician or Head Nurse before she leaves.

Certain health regulations must be met by all entering students. A medical examination blank provided by the College must be filed before July first. As part of this health report, certification of immunization against tetanus and diphtheria, vaccination against smallpox, a Mantoux test and ophthalmologist's certificate are required. If the Mantoux test is reported positive a flat chest X-ray is necessary. (Students who have failed to hand in these reports will have the necessary examinations and immunizations on arrival and will be charged accordingly.)

The ophthalmologist's examination must be repeated before the beginning of the junior year. Failure to meet this requirement necessitates an examination by one of the College consultants, for which the student will be charged as a private patient by the ophthalmologist who makes the examination.

Any student who has a positive Mantoux test is required to have a yearly flat chest plate beginning the year after admission to the College. The student must pay for this.

Every undergraduate is examined in her freshman and senior years by the College Physician and in her freshman year by the Director of Physical Education as to physical development and general health. Students who have special health problems are examined more frequently. A student who at the time of an examination or at any other time during the year is not in good health is required to follow the special regime prescribed, and her extracurricular activities may be limited.

The residence fee paid by resident students entitles them to treatment in the College Dispensary and to care in the College Infirmary for seven days (not necessarily consecutive) during the year, to attendance by the College physicians during this time

and to general nursing. In cases requiring a special nurse, the expense incurred must be paid by the student. This is mandatory in cases of serious illness and strict isolation. The fee for each day in the Infirmary after the seven-day period is nine dollars. The Infirmary is open when college is in session and during spring vacation. It is closed during Christmas vacation.

Non-resident students must pay a fee of \$15, which entitles them to unlimited dispensary and laboratory service and free consultation with the College physicians and psychiatrists. Married non-resident students who maintain their own homes need not pay the fee unless they desire dispensary privileges.

All communications from parents and guardians, outside physicians and others, concerning the health of the students, should be addressed to the Dean of the College or the College Physician. Any student who becomes ill when absent from College must notify the Dean of the College immediately and present a signed statement to the Infirmary from her physician when she returns.

The College reserves the right, if the parents or guardians cannot be reached, to make decisions concerning operations or other matters of health.

The College has arranged for health insurance, known as the Students' Reimbursement Plan. Individual policies providing reimbursement for medical, surgical and hospitalization expenses within specified limits are available to resident students. The cost is \$15 a year and includes protection during all vacations. Application forms may be obtained from the Comptroller.

### THE TUITION PLAN

Since some parents prefer to pay tuition and other college fees in equal monthly instalments during the college year, the College offers this convenience under The Tuition Plan, Inc., of New York City. The cost for a one-year contract is four per cent greater than when payment is made in cash. The interest rate is slightly higher for two-, three- or four-year contracts, which include the benefit of Parent Life Insurance.

### INSURANCE

The College is not responsible for loss due to fire, theft or any other cause. Students who wish to insure against these risks should do so individually.

# Curriculum

THE undergraduate curriculum is designed to achieve two main purposes: to give a broad and sound education in the liberal arts and sciences, and to provide adequate preparation for advanced study for those students who wish to enter graduate and professional schools.

In order to assure breadth in the curriculum the College has established the following requirements which must be met by all candidates for the A.B. degree regardless of their choice of major subject: (1) Freshman English composition, (2) History of Philosophic Thought, (3) one course in the natural sciences, (4) one course in literature and (5) one course in the social sciences or history. Each student must also demonstrate a knowledge of two foreign languages. This may be done by (1) attaining a score of 590 on a College Board achievement test, taken in the senior year of high school, (2) passing examinations offered by the College every spring and fall, or (3) passing with a grade of at least 70 a college course above the elementary level.

The major subject, chosen at the end of the sophomore year, is combined with work in allied subjects. The purpose of the major subject is to give each student the kind of training that continuity in the study of one field of knowledge provides. As she progresses toward more complex advanced work she acquires a deeper insight into the fundamental principles and general concepts of her subject. At Bryn Mawr the departments offering major courses of study are: Biology, Chemistry, Classical and Near Eastern Archaeology, Economics, English, French, Geology, German, Greek, History, History of Art, Italian, Latin, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Russian, Sociology and Anthropology, Spanish. The departments of Education and History of Religion offer elective work which may be allied with certain major subjects but no separate majors.

Each major department offers Honors work to a number of its senior students who have demonstrated unusual ability. Honors work is of a more advanced character than that done in the regular courses and requires more initiative and power of

organization than is usually expected of undergraduate students. Such work may be carried on in connection with an advanced course or may be planned especially for individual students. It usually includes independent work of a critical and analytical nature with source material, periodic reports and the preparation of an Honors paper. To be eligible a student must have completed two years of study in the major subject, and her candidacy must be approved by the Dean and the Curriculum Committee. The Honors work must be undertaken in addition to at least one full unit of advanced course work.

The plan for the curriculum determines the framework within which each student constructs her own program of courses.

The minimum of  $15\frac{1}{2}$  units of work for the A.B. degree is distributed as follows:  $4\text{--}5\frac{1}{2}$  units meet general college requirements, approximately 7 units constitute work in the major subject including allied work and the preparation for the Final Examination in the major subject, required of all students. The remaining units ( $3\text{--}4\frac{1}{2}$ ) are for courses to be elected freely by the student. Each full year course is the equivalent of one unit of work and each course constitutes one quarter of a student's working time for one year. For the benefit of transfer students, one course is the equivalent of 8 semester hours. In most cases, Freshmen, Sophomores and Juniors take 4 units of work and Seniors  $3\frac{1}{2}$ , including the unit of preparation for the Final Examination in the major field. This preparation usually consists of independent reading and conferences with members of the major department designed to review and correlate the material covered in the major.

A student may be exempt from one or more of the required courses on the basis of advanced, college-level courses taken in secondary school and approved and tested by the particular departments concerned. One or more of the requirements may be met by summer school courses which are approved by the departments concerned and by the Dean.

The plan for the curriculum may be outlined as follows:

I. A total of at least  $15\frac{1}{2}$  units of work must be presented by all candidates for the A.B. degree. The total is made up of  $14\frac{1}{2}$  units of course work and one unit of preparation for the Final Examination in the major subject.

II. The  $14\frac{1}{2}$  units of course work must include the following:

1. The course for Freshmen in English Composition. This course is supplemented by work in English Speech, consisting of individual conferences, which must be completed before the end of the Sophomore year.

2. A course in literature to be chosen from courses in English and Biblical Literature, Greek or Latin.

3. A course in one of the following sciences: Biology, Chemistry, Geology or Physics.

4. The course in History of Philosophic Thought.

5. A course in social science to be chosen from offerings in Economics, History, Political Science, Psychology or Sociology and Anthropology.

6. Although no specific course or courses are required, each student must demonstrate a knowledge of two foreign languages. (See page 41.)

Language examinations may be taken in any autumn or spring after entrance, up to the beginning of the senior year. A Senior who fails either examination or is conditioned in both in the autumn will not receive her degree the following June. If having passed one examination she is conditioned in the other, she may take a second examination in January.

III. The total number of at least  $15\frac{1}{2}$  units of work must include a major subject chosen at the end of the sophomore year. The major subject must consist of:

1. Six units of work to be distributed as follows:

- a. At least three and usually four courses of work in the major field. Of these one or two must be second-year courses, and one must be advanced.

- b. The remaining number of courses to make up the required total of six to be chosen among the courses listed by the major departments as acceptable for allied work.

2. One unit of preparation for the Final Examination in the major subject. All students who receive the degree must have passed this examination.

IV. Elective work. The remaining units of work making up the required total of  $15\frac{1}{2}$  are devoted to elective courses. Students may choose freely any courses that do not have prerequisites or any courses whose prerequisites they can meet.

V. Grades. Numerical grades on the scale of 100 are given in all courses counting for the degree. Each student must attain a grade of 70 or above in at least half of these courses and a grade of at least 60 in the remainder. In all courses in her major subject, she must attain grades of 70 or above. Should she receive a grade below 70 in a second-year or advanced course in her major subject, she may be required to change her major.

VI. The degree of Bachelor of Arts is conferred upon students who have completed the course of study described above. The degree is awarded *cum laude*, *magna cum laude*, and *summa cum laude* to students whose numerical average in all their courses is 80-84, 85-89, 90 or above respectively. To students who have completed Honors work in their major subject the degree is awarded with honors in that subject.

VII. Credit for work taken elsewhere:

1. Transfer credit (see page 29)
2. Cooperation with Neighboring Institutions

Under the Three-College Plan for Cooperation, full-time students at Bryn Mawr may register for courses at Haverford College and Swarthmore College without payment of additional fees. Such registrations must be approved by the Dean and the departments concerned. Credit toward the Bryn Mawr degree will be granted for such courses.

3. Summer School Work

Students desirous of supplementing their work at Bryn Mawr by taking courses in summer school are encouraged to do so. Students who wish to present summer school work for credit should first obtain approval of their plan from the Dean and from the department concerned. No credit will ever be given for work in which a student has received a grade below C. Credit given will be calculated on an hour-for-hour basis.

### VIII. Supplementary requirements for the Degree:

1. In addition to completing the course of study outlined above, all candidates for the A.B. degree must take the following work:

a. All students must fulfill the requirement in English Speech. This consists of an interview-test during the freshman year, to be followed by remedial work (in conference, without credit), ordinarily throughout the first semester, for those needing it.

b. Hygiene

All students must meet the requirements in Hygiene by passing an examination based on reading assigned by the College Physician and the Consulting Psychiatrists and given annually. The examination must be taken no later than the autumn of the junior year.

c. Physical Education

All students must meet the requirement in Physical Education, consisting of work taken throughout the freshman and sophomore years (see page 108).

2. Residence—Every candidate for the degree of Bachelor of Arts unless she is a transfer student or is permitted to accelerate her program must attend Bryn Mawr College for a period of four years. Students admitted on transfer from other colleges must study at Bryn Mawr for at least two years.

### PREMEDICAL PREPARATION

Bryn Mawr, through the curriculum in liberal arts and sciences, provides the opportunity of meeting requirements for admission to the leading medical schools of the country, and each year a number of its graduates enter these schools. The minimal requirements for most medical schools are met by the following courses: Biology 101, Chemistry 101, Chemistry 202, Mathematics 101, Physics 101. Some medical schools also stipulate Chemistry 201a, and reading facility in French and German.

The requirements are fulfilled by a major in Biology, with

the election of Mathematics 101 and Physics 101, or by a major in Chemistry, with the election of Biology 101. They can be met by a major in other subjects, such as literature or history, with careful planning of the student's courses during her four years at Bryn Mawr and some work in the summer at an institution giving summer courses acceptable either to Bryn Mawr in substitution for its regular course work, or to the medical school of the student's choice as preparation for its courses of study.

The College is able to award a number of scholarships for medical study from funds given for that purpose by friends interested in the advancement of women in medicine. These may be applied for on admission to medical school and are awarded at the end of the senior year for use during the first year of medical study, with the prospect of renewal for later years if the student's need and her record in medical school warrant it.

### COORDINATION IN THE SCIENCES

In 1935, a grant from the Carnegie Corporation of New York enabled the College to put into operation a Plan for Coordination in the Sciences. Under the plan, the science departments offer an unusual kind of science training, providing instruction in overlapping fields of natural science and related subjects, such as biophysics, geochemistry, or psychophysics. The program necessarily demands a thorough grasp of the fundamentals of at least two sciences, and usually also of mathematics. This training may be obtained in the first three years of undergraduate study and the interrelated work begun in the senior year and continued in the Graduate School.

Through the grant, the College is also able to offer both undergraduate and graduate scholarships to students who wish to prepare themselves for future work in these relatively new and extremely fruitful areas of scientific investigation. The chairmen of the departments included in this plan (Biology, Chemistry, Geology, Mathematics, Physics, Psychology) will be glad to see students interested in it and to advise them about their courses of study. Such students should consult with the chairmen of the departments in which their special interests lie as early in their course as it is possible to do so.



## INTERDEPARTMENTAL COURSES

Each year, certain courses are offered which cut across well-defined areas of knowledge and emphasize relationships among them. Such courses are taught by two or more members of the faculty working in close cooperation. Since the material considered requires some background in at least two disciplines, the interdepartmental courses are usually offered at the advanced level. For students who have progressed to the more complex aspects of their major subjects, the interdepartmental courses provide an opportunity to apply their training to new and broader problems and to benefit from the experience of seeing their own subject from the points of view of several specialists. To facilitate free discussion registration is generally restricted to a limited number of well-qualified students.

## LANGUAGE HOUSES

Wyndham is a small residence open to upperclassmen who wish to speak French. Living in the language house requires adequate preparation in French, and students accepted agree not to speak English in the French House at any time. Residence in a language house provides an excellent opportunity to gain fluency in speaking a foreign language and is highly advisable for students planning to spend the junior year abroad. Whenever there is sufficient demand, similar residences are available to students of German and Spanish.

## THE JUNIOR YEAR ABROAD

Qualified students may apply for admission to the various groups spending the junior year in Europe. Bryn Mawr students may study in Paris under one of the junior year plans sponsored by Sweet Briar College or Smith College; in Geneva, Florence, or Madrid with groups organized by Smith College, or in Munich or Freiburg with the group sponsored by Wayne University. Applicants must have excellent academic records and must give evidence of competence in the language of the country where they plan to study. In general, two years of study at the college level are necessary to provide adequate language preparation. The junior year groups are not limited to language majors; they

often include majors in, for example, History of Art, History or the social sciences. All students who plan to study abroad should consult the chairmen of their major departments to be certain that the work done in Europe may be coordinated with the general plan for the major subject.

#### SCHOLARSHIPS AND OTHER STUDENT AID

All students are, strictly speaking, on scholarship in the sense that their tuition fees do not wholly cover the costs of instruction. To those students well-qualified for education in liberal arts and sciences but unable to meet the college fees, Bryn Mawr is able to offer further scholarship aid. Alumnae and friends of the College over many years have built up endowment for scholarships. Annual gifts from alumnae and alumnae clubs and from industries add to the amounts available each year. It is now possible to provide at least partial scholarships for a quarter to a third of the undergraduate students. Full information about the scholarships available and other forms of help for meeting the expenses of college education will be found in the section, Academic Awards.

# Courses of Study

1960-1961

## *Key to Course Numbers and Symbols*

- 1, 2, 3 . . . . . indicate elementary and intermediate courses.  
With the exception of Greek 1 and Russian  
1 these courses are not part of the major  
work.
- 101, 102, etc. . . . indicate first-year courses in the major work.
- 201, 202, etc. . . . indicate second-year courses in the major  
work.
- 301, 302, etc. . . . indicate advanced courses in the major work.
- \* . . . . . indicates elective courses, open to all students  
without prerequisite unless a specific pre-  
requisite is stated.
- a . . . . . the letter "a," following a number, indicates  
a half-course given in the first semester.
- b . . . . . the letter "b," following a number, indicates  
a half-course given in the second semester.
- c . . . . . the letter "c," following a number, indicates  
a half-course given two hours a week  
throughout the year.
- [ ] . . . . . Square brackets enclosing the titles of courses  
indicate that these courses, though regular  
parts of the program, are not given in the  
current year.

In general, courses which are listed as full-year courses must be carried through two semesters. In some cases one semester of such a course may be taken with credit, but only with permission of the Dean of the College and the department concerned. Students are reminded that one unit of work carried throughout the year is the equivalent of eight semester hours.

## Biology

**PROFESSORS:**MARY S. GARDINER, PH.D., *Chairman*

L. JOE BERRY, PH.D.

ELEANOR A. BLISS, SC.D.

JANE M. OPPENHEIMER, PH.D.

**ASSOCIATE PROFESSOR:**

ROBERT L. CONNER, PH.D.

**LECTURER:**

SARAH FLEMISTER, PH.D.

**ASSISTANTS:**

ANNE E. HUDOCK, A.B.

JANE R. MCCONNELL, PH.D.

SHARON D. MESSENGER, A.B.

PATRICIA ONDERDONK, A.B.

The courses offered are designed to present the principles underlying biological science to liberal arts students interested in man's understanding of the world in which he lives and his own position in it. Primary consideration is devoted to the interplay of development, structure and function in determining the unity and diversity which characterize the plant and animal kingdoms, and to the historical and dynamic interrelationships of living organisms with each other and with their environments. In the laboratory the student learns by dissection and microscopic study the gross and detailed anatomy of representative animals and plants, and by experimentation the functional relationships within them and their operation under natural and controlled experimental conditions.

**REQUIREMENTS IN THE MAJOR SUBJECT:** Biology 101, 201 and 202; one advanced course, and as allied work, Chemistry 101 and 202. Students who have not completed the prerequisite courses will be admitted to second year and advanced courses only by permission of the Department. Students offering two fields in Biology for the final examination, in addition to the examination in General Biology, must take two advanced courses. Physics 101, Mathematics 101 and Chemistry 201 are strongly recommended as allied work and are required for admission to some medical schools. The Biology Department has no special language requirements, but students should note that the ability to read French and German is essential for those expecting to do graduate work and is required for admission to some medical schools.

ALLIED SUBJECTS: Chemistry, Physics. Other subjects may be included, with the approval of the Department.

101. *General Biology*: Mr. Berry, Mr. Conner, Miss Gardiner, Miss Oppenheimer: Laboratory: Mrs. Flemister and Assistants.

A presentation of the fundamental principles of development, structure and function in organisms. A wide range of plants and animals is studied to illustrate broad biological problems and theories of historical and contemporary interest. Lectures three hours, laboratory four hours per week.

201. *The Biology and Physiology of Vertebrates*: Miss Oppenheimer, Mr. Berry.

A study, supplementing that of the first-year course, of the anatomy of representative vertebrates, their physiology and natural history. Lectures three hours, laboratory four hours per week. Prerequisite: Biology 101.

202. *Invertebrate Biology and Cellular Physiology*: Miss Gardiner, Mr. Conner.

A survey of the anatomy and natural history of the invertebrates and a study of the functional problems met by living systems and of the mechanisms by which these are solved. Lectures three hours, laboratory four hours per week. Prerequisites: Biology 101, Chemistry 101, Biology 201, Chemistry 202 (may be taken concurrently).

- [301. *Theories of Inheritance*: Miss Gardiner.]

A study of the various theories of inheritance leading to modern concepts of heredity in organisms. This may be taken concurrently with Biology 202. Lectures two hours, laboratory six hours (minimum) per week.

302. *Developmental Physiology*: Miss Oppenheimer.

Discussion of factors controlling growth and differentiation in vertebrates and invertebrates. Lectures two hours, laboratory six hours (minimum) per week. This may be taken concurrently with Biology 202.

303. *Physiology of Micro-organisms*: Mr. Berry.

An introduction to the fundamental physiological and biochemical principles associated with studies of micro-organisms, including host-parasite relationships and other interactions between organisms. Major emphasis is given to bacteria and

bacteriological techniques. Lectures two hours, laboratory six hours (minimum) per week. Prerequisites: Biology 202, Chemistry 202.

[304. *Micro-anatomy*: Miss Gardiner.]

The study of tissues and cells, with consideration of the methods of preparing material for microscopic study.

[305. *Biochemistry*: Mr. Conner.]

The chemistry of living organisms with special emphasis on the chemical principles in physiological phenomena. Lectures two hours, laboratory six hours (minimum) per week. Prerequisites: Chemistry 202, Biology 202; except by permission of the Department. Physics 101 is recommended.

FINAL EXAMINATION: The final examination is in three parts:

1. General Biology (required of all students).
2. Two examinations from the following group: Biochemistry, Biophysics, Theories of Inheritance, Development of Scientific Thought, Embryology, Micro-anatomy, Physiology of Micro-organisms.
3. For one of the examinations in Part 2, students may substitute:  
    the Honors paper  
    or  
    an examination in Chemistry or Physics covering at least two years of work in the subject.

Other subjects may be accepted for the third examination provided that at least two years of work have been done in the one offered.

HONORS WORK: Honors work in any of the advanced fields is offered to qualified students.

## Chemistry

PROFESSOR:	ERNST BERLINER, PH.D. <i>Chairman</i>
ASSOCIATE PROFESSOR:	GEORGE L. ZIMMERMAN, PH.D.
ASSISTANT PROFESSORS:	FRANK B. MALLORY, PH.D. JOSEPH VARIMBI, PH.D.
LECTURER:	FRANCES BONDHUS BERLINER, PH.D.
ASSISTANTS:	CHARLES EVERS, B.S. LAWRENCE VERBIT, B.A.

The major in Chemistry is designed to give the student a sound background in the four major fields of Chemistry: Inorganic, Analytical, Organic and Physical Chemistry. The courses are arranged in such a sequence as to convey an insight into the development of chemical theories from basic scientific principles. In the advanced courses the student begins to be acquainted with current problems in special fields and with modern approaches to their solutions. The emphasis throughout is on the fundamental principles on which Chemistry is based and which are exemplified and further clarified by laboratory work taken in conjunction with each course.

**REQUIREMENTS IN THE MAJOR SUBJECT:** Chemistry 101, all 200 courses and one and one-half units of advanced work. Physics 101, Mathematics 101 and a reading knowledge of German and of French or Russian are also required. Students are urged to take also Mathematics 201.

**ALLIED SUBJECTS:** Biology, Geology, Mathematics, Physics.

101a. *General Chemistry:* Mr. Mallory and assistants.

An introduction to the theories of chemistry and the study of the non-metals. No knowledge of chemistry is presupposed. Three lectures, four hours laboratory a week.

101b. *Qualitative Analysis and the Chemistry of the Metals:* Mr. Berliner and assistants.

Systematic qualitative analysis of inorganic substances and the theories on which it is based. A study of the metallic elements. Three lectures, four hours laboratory a week.

201a. *Quantitative Analysis* (first semester): Mr. Varimbi.

Theories and practice of the quantitative determination and separation of inorganic substances. Two lectures, eight hours laboratory a week.

202. *Organic Chemistry*: Mr. Berliner, Mr. Mallory.

First semester: aliphatic chemistry; second semester: aromatic chemistry and natural products. Three lectures, five hours laboratory a week.

203. *Physical Chemistry*: Mr. Zimmerman.

Structure and kinetic-molecular theory of matter, elementary thermodynamics and chemical kinetics. Two lectures, five hours laboratory a week. Prerequisites: Mathematics 101 and Physics 101. (The latter may be taken concurrently.)

301b. *Inorganic Chemistry*: Mr. Varimbi.

A systematic study of the descriptive and theoretical chemistry of the elements and their compounds based on the Periodic Table. Two lectures, six hours laboratory a week.

302 (a and b). *Advanced Organic Chemistry*: Mr. Mallory, Mr. Berliner.

Lectures: theories and fundamental principles of organic chemistry. Laboratory: (first semester) organic qualitative analysis; (second semester) advanced synthesis and laboratory techniques. Two lectures, six hours laboratory a week. The first semester may be taken without the second ( $\frac{1}{2}$  unit).

303 (a and b). *Advanced Physical Chemistry*: Mr. Zimmerman, Mr. Varimbi.

First semester: systematic chemical thermodynamics; second semester: atomic and nuclear structure, elementary quantum theory. Two lectures, six hours laboratory a week. The first term may be taken without the second ( $\frac{1}{2}$  unit).

FINAL EXAMINATION: The examination consists of three parts:

1. General Chemistry (required of all students).
2. Two examinations from the following group: a. Analytical and Inorganic Chemistry, b. Organic Chemistry, c. Physical Chemistry.
3. For one of the subjects in Group 2, an examination in an allied subject, covering at least two years of work, may be offered. In that case the student need take only one unit of advanced work.

HONORS WORK: Honors work may be taken by qualified students in conjunction with any of the advanced courses or after their completion.



## Classical and Near Eastern Archaeology

ASSOCIATE PROFESSOR: MACHTELD JOHANNA MELLINK, PH.D.,  
Chairman

ASSISTANT PROFESSOR: ALEXANDER CAMBITOGLU, PH.D.

ASSISTANT: ANN K. KNUDSEN, M. A.

PROFESSOR OF

ANTHROPOLOGY: FREDERICA DE LAGUNA, PH.D.

The major courses provide an extensive survey of the ancient Mediterranean civilizations, with emphasis on the Greek arts of sculpture, architecture and vase-painting.

Lectures are illustrated by lantern slides; and for most courses photographs are available for study and review. A term paper or report is normally required.

REQUIREMENTS IN THE MAJOR SUBJECT: Classical Archaeology 101, 201, 203 and 301.

ALLIED SUBJECTS: Ancient History, Anthropology, Greek, History of Art, Latin.

101. *An Introduction to Ancient Art*: Miss Mellink, Mr. Cambitoglou, Miss Knudsen.

In the first semester a general survey of the evolution of ancient art is given, beginning with the Egyptian and Mesopotamian heritage and tracing its importance first to Aegean art and then to the origins of Greek art proper. The major achievements of archaic and classical Greek art are discussed in some detail.

In the second semester the principal features of Hellenistic, Etruscan and Roman art in Italy and throughout the Mediterranean world are studied down to the end of the Roman Empire in the West, ca. A.D. 476.

A fourth hour weekly is devoted to informal discussion.

201a. *Egyptian and Mesopotamian Archaeology*: Miss Mellink.

An introduction to the cultures of the ancient Near East, stressing the origins of civilization and the rise of local traditions.

201b. *Aegean Archaeology*: Miss Mellink.

The pre-Greek cultures of the Aegean area; Minoan Crete and its relations; the encounter of pre-Greeks and Hellenes; the

first consolidation and expansion of Greek culture in the Mycenaean age.

[202a. *Ancient Greek Cities and Sanctuaries.*]

A course considering in a comprehensive way the ancient form and general cultural importance of such sites as Athens, Delphi and Olympia, with emphasis on history, religion and mythology connected with each center.

[202b.\* *Cultural History of Archaeology:* Miss Mellink.]

The development of archaeology through the ages: antiquarian interests, early excavations and travels, the position and future of archaeology as a modern discipline.

203a. *Greek Sculpture:* Mr. Cambitoglou.

The development of Greek sculpture from its beginnings to Roman times. The term paper deals with some piece of sculpture selected by the student.

203b. *Later Greek and Roman Sculpture:* Mr. Cambitoglou.

The development of Roman sculpture from its beginnings in Etruscan and Greek Italy and the Hellenistic world to the end of the Roman Empire in the West, ca. A.D. 476. The term paper deals with individual monuments or groups of sculpture selected by the student.

[204. *American Archaeology:* Miss de Laguna (See Anthropology 204).]

301a. *Ancient Architecture:* Mr. Cambitoglou.

The ancient architectural tradition in its historical context, with special study of the Greek temple as its dominant achievement.

301b. *Ancient Painting:* Miss Mellink.

The development of Greek vase-painting as an original form of art, its relations to monumental painting, and its place in Greek archaeological research.

[302a. *The Greek Style in Art:* Miss Mellink.]

An analysis of the originality and consistency of style in the various fields of Greek art. The course will be conducted as a discussion group with reports and a term paper. Prerequisites: Classical and Near Eastern Archaeology 101, 201, 203, 301.

FINAL EXAMINATION: Three papers on any three of the fields covered by the undergraduate lecture courses, but with ques-

tions of broader scope involving more extensive knowledge. During their senior year majors attend weekly one-hour conferences in each of their selected fields. If a student wishes, she may write one of the three papers in an allied field.

**HONORS WORK:** A long written paper is submitted on a topic selected by the student and approved by the Department. In preparation, the student confers throughout the year with the member of the Department under whom the paper is prepared.

## Economics

PROFESSORS:	MILDRED BENEDICT NORTHROP, PH.D., <i>Chairman</i>
	JOSHUA C. HUBBARD, PH.D.
VISITING LECTURER:	RICHARD A. SABATINO, PH.D.
ASSOCIATE PROFESSOR:	MORTON S. BARATZ, PH.D. <sup>1</sup>
LECTURER:	LAURA E. ROMINE, M.A.

This major is designed (1) to provide the student with an understanding of the institutions and processes of the economic world in which we live, (2) to train her in the methods by which these institutions and processes may be analyzed, and (3) to enable her to evaluate the role played by economic forces in the political and social issues of the day.

**REQUIREMENTS IN THE MAJOR SUBJECT:** Economics 101, two units elected from 201, 202 and 203, and 301. Students are urged to take Mathematics 204 (Statistics) which will count as part of their allied work.

**ALLIED SUBJECTS:** Political Science, History, Philosophy, Psychology, Mathematics, Sociology and Anthropology, Modern Languages. Particular attention is called to the following courses as of special interest to Economics majors: Political Science 210b and Political Science 307b.

101. *Introduction to Economics:* Miss Northrop, Mr. Hubbard, Mr. Sabatino.

This course analyzes the major problems involved in the allocation of resources, the distribution of income, the mainte-

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1. On leave of absence for the year 1960-61.

nance of economic stability, the provision of social security and international economic relationships.

201a. *Industrial Structure and Market Behavior*: Mr. Sabatino.

Theoretical and empirical analysis of the structure of industrial markets and the behavior of business firms in a competitive economy; legal restrictions on business policy; social and political implications of public regulation of private enterprises.

201b. *International Economics*: Miss Northrop.

A study of international trade and international finance in theory and practice; the foreign economic policy of the United States; international economic organization; the impact of industrialism on underdeveloped nations.

202a. *Money and Banking*: Mr. Hubbard.

The development and present organization of the money and banking system of the United States; domestic and international problems of monetary theory and policy.

202b. *Public Finance and Fiscal Policy*: Mr. Sabatino.

A study of local, State and Federal revenues and expenditures with particular emphasis on the Federal budget; fiscal policy as a positive means of shaping public taxation and expenditure so as to contribute to a stable full employment economy.

203a.\* *The Labor Movement*: Mrs. Romine.

Economic and political causes of the development of the labor movement in the United States and Europe; the role of government in a competitive economy.

203b.\* *Employer-Labor Relations*: Mrs. Romine.

The nature of the collective bargaining contract; wage determination in theory and practice; causes of labor disputes and methods of settlement.

[301a. *History of Economic Thought*: Miss Northrop.]

An analysis of economic thought in the 18th and 19th centuries as it developed against the background of social and political change. Readings, among others, in the works of Smith, Malthus, Ricardo, Mill, Marx, Jevons and Marshall.

301b. *Contemporary Economic Thought*: Mr. Hubbard.

An analysis of economic thought in the 20th century. The national income, economic growth, fluctuations in economic activity, the determinants in the level of income and employment.

302a. *Comparative Economic Systems*: Miss Northrop.

A study of the major forms of economic organization with particular emphasis on those existing today.

**FINAL EXAMINATION:** The final examination for students majoring in Economics is in three parts:

1. An examination in general economic principles and problems.
2. An examination in Economic Theory.
3. An examination in one of the following:
  - a. Money and Banking, including Fiscal Policy
  - b. Industrial Structure and Market Behavior
  - c. International Economics
  - d. The Business Cycle and Full Employment
  - e. Labor Economics including Wages and Wage Theory
  - f. The History of Economic Thought

With the permission of the major and allied departments, one paper may deal with an allied subject.

**HONORS WORK:** One unit of Honors work may be taken by students recommended by the Department.

## Education

PRESIDENT

OF THE COLLEGE:

KATHARINE ELIZABETH McBRIDE,  
Ph.D., LL.D., L.H.D., Sc.D.

PROFESSOR AND DIRECTOR,

CHILD STUDY INSTITUTE:

RACHEL DUNAWAY COX, Ph.D.,  
*Chairman*

LECTURER AND DIRECTOR,

THORNE SCHOOL:

SUSAN E. MAXFIELD, M.S.

LECTURER:

ETHEL W. MAW, Ph.D.

ASSISTANTS:

LELIA BRODERSEN, M.A.

MARILYN McHENRY, A.B.

The work in Education is designed for students preparing for teaching or for work with children in a variety of fields. The curriculum treats the nature and development of the child, the psychology of teaching and learning, and principles of measurement. It deals with the history, philosophy and objectives of the school as a social institution.

Though there is no major in Education, a sequence of courses in the Department enables the student to prepare for teaching. Students expecting to teach are urged to confer with the Depart-

ment during the Freshman year. Work leading to the certificate to teach in the secondary school in most states can be taken concurrently with a liberal arts major if the student very early maps out her course of study. The suggested sequence includes, in the order named, General Psychology, Principles of Teaching, Educational Psychology, Child Psychology or History and Philosophy of Education, and Principles of Teaching in the Secondary School. The last named course includes twelve hours per week of supervised practice teaching for one semester in the nearby schools of the Lower Merion Township.

The certificate to teach in the elementary school requires some substitutions in the above list plus additional requirements which differ from state to state. The basic work offered by this Department must be supplemented by courses taken elsewhere.

The Phebe Anna Thorne School is maintained by the Department of Education as a laboratory for child study where undergraduates have experience with young children as part of the course work. The pre-school program, in which advanced students assist, provides training for those planning to teach.

The Department also operates the Child Study Institute. This is a clinic supported jointly by the College and the Lower Merion Township Schools for work in Child Development. Problems of learning and behavior are studied; psychological testing and remedial teaching are carried on. A program of counseling for children and their parents renders help in school and family adjustment. Advanced students participate in the work, and undergraduate and graduate students observe in the schools.

Referrals also come to the Institute from the neurological and pediatric departments of the Bryn Mawr Hospital, from psychiatrists and from social agencies, giving the students the opportunity for acquaintance with a diversity of clinical material. Rooms are equipped for the individual examination of pupils, remedial teaching, play therapy and student observation. Sound recording facilities are available for the study and improvement of counseling and testing techniques.

[101b. *Principles of Teaching*: Miss McBride.]

102b. *History of Education*: Mrs. Maw.

A study of the inter-relation of education and culture from earliest times to the present day with consideration to current educational issues as they are rooted in the historical process.

[201a. *Educational Psychology*: Mrs. Cox.]

Principles of Psychology applied to teaching and learning.

Problems of motivation, evaluation and adjustment. Group process and learning. Two hours laboratory per week.

202a. *Child Psychology*: Mrs. Cox.

The development of the child from infancy to maturity. Physical, intellectual and emotional growth and learning in the family and the school. Two hours laboratory per week in the Thorne School. Prerequisite: Psychology 101.

301a. *Principles of Teaching in the Secondary School*: Mrs. Maw.

The objectives, curriculum and organization of the secondary school. The nature of the learner and his relation to the school program and aims. Two-hour seminar per week; 12 hours practice-teaching in the junior or senior high school.

302a. *Principles of Teaching in the Elementary School*: Mrs. Maw.

The objectives and curriculum of the elementary school. The nature of the learner and the learning process during the early school years. Two-hour seminar per week; 12 hours practice-teaching in the elementary school.

## English

### PROFESSORS:

K. LAURENCE STAPLETON, A.B.,

*Chairman*<sup>1</sup>

STEPHEN JOSEPH HERBEN, B.LITT., PH.D.<sup>2</sup>

ARTHUR COLBY SPRAGUE, PH.D.,

*Acting Chairman*

MARY KATHARINE WOODWORTH, PH.D.

BETTINA LINN, M.A.<sup>3</sup>

### ASSOCIATE PROFESSORS:

WARNER B. BERTHOFF, PH.D.

ISABEL GAMBLE MACCAFFREY, PH.D.

### ASSISTANT PROFESSORS:

ROBERT HAWES BUTMAN, M.A.

ROBERT B. BURLIN, PH.D.

JAMES H. BRODERICK, M.A.

### INSTRUCTORS:

ANN EVANS BERTHOFF, M.A.

SANDRA M. BERWIND, A.B.

F. CLAUDETTE KEMPER, M.A.

RAMONA T. LIVINGSTON, A.B.

CATHERINE RODGERS, B.A.

ROBERT A. WALLACE, A.B.

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1. On leave of absence and sabbatical leave for the year 1960-61.

2. On partial leave semester I, sabbatical leave semester II.

3. On sabbatical leave for the year 1960-61.

To the student planning to major in English the Department offers courses covering all periods of English literature. The student selects her fields within this broad range and devotes special attention to one period or literary genre.

REQUIREMENTS IN THE MAJOR SUBJECT: Students majoring in English must take English 101 unless they have the recommendation of the Department to enter a second-year course. They must complete four second-year and advanced courses in English literature, of which at least one should be an advanced course. Students who wish to specialize in the field of Old and Middle English must take some courses in later periods, and those specializing in modern literature must take English 201 or, in exceptional cases, certain other courses approved by the Department. Credit will not be given for a single semester's work in full-year courses unless the Dean of the College recommends, and the Department approves, that an exception be made.

ALLIED SUBJECTS: Any other language or literature, History, History of Art, History of Religion, Music, Philosophy and certain courses in Classical Archaeology. Students are advised to devote one unit of allied work to a course in Greek or Latin or Greek Literature in Translation. Any second-year or advanced writing course may be substituted for one unit of allied work.

#### WRITING, LANGUAGE, AND SPEECH

15. *English Composition and Reading*: Mrs. MacCaffrey, Mr. Burlin, Mr. Broderick, Mrs. Livingston, Mr. Wallace, Mrs. Berthoff, Miss Rodgers, Mrs. Berwind, Miss Kemper.

Practice in writing based upon the study of selected authors, with emphasis upon ideas and the problems of the writer in his time. The student will read fiction, poetry, and critical and argumentative prose in one of the following fields: (a) Literature of the twentieth century; (b) American Literature, 1840 to the present; (c) English Literature of the Renaissance. There will be weekly papers and discussions, and regular conferences with each student.



*In 209, 215a and 306 weekly papers are usually required. Students who cannot meet this requirement should not elect any of these courses.*

209.\* *Experimental Writing*: Mr. Wallace.

Practice in various forms of writing, fiction and non-fiction. Attention is paid to the needs and interests of each student. Prerequisite: English 15 at Bryn Mawr or the written permission of the instructor.

210a.\* *Playwriting and Production*: Mr. Butman.

Writing of two original one-act plays.

210b.\* *Advanced Playwriting and Production*: Mr. Butman.

Writing of a full-length play and preparation of its production-book. Prerequisite: approval of the instructor.

211.\* *Verse Composition*: Mr. Wallace.

Original verse composition, with a study of the principles of form.

[213b.\* *History of the English Language*: Mr. Herben.]

[215a.\* *Prose Writing*: Miss Linn.]

Practice in various forms, excluding fiction and with emphasis on exposition and description. Prerequisite: English 15 at Bryn Mawr or the written permission of the instructor.

[306\* and 306c.\* *Advanced Writing*: Miss Linn.]

Practice in various forms of writing with the emphasis on technical problems. Prerequisite: English 209.

## LITERATURE

101. *Introduction to English Literature*: Mrs. MacCaffrey, Miss Rodgers.

A critical study of major works and representative writers, with emphasis upon the historical context and the growth of literary tradition.

201. *English Literature of the Middle Ages*: Mr. Burlin.

The emphasis is upon Chaucer and his contemporaries. Sufficient instruction is given in Middle English to enable the student to read ordinary texts.

202. *Shakespeare*: Mr. Sprague.

In the first semester all the plays are read, and in the second semester two or three are studied in detail.

[203. *The Romantic Period*: Mr. Broderick.]

English Literature from 1789 to 1832. Attention is centered upon the poets.

204. *The Victorian Period*: Mr. Broderick.

Attention is centered upon the poets.

[205. *Representative English Novelists*: Miss Linn.]

A study of the development of English fiction, and of the novel as a literary form, through the works of selected novelists in the eighteenth and nineteenth centuries. Prerequisite: the reading of two novels by each of the following: Charlotte Brontë, Dickens, Thackeray, George Eliot, Meredith.

[206a. *English Drama from the Restoration to Robertson*: Mr. Sprague.]

[206b. *Modern English Drama*: Mr. Sprague.]

The drama from 1865 to the present day.

207. *English and American Literature of the Last Half-Century*: Miss Woodworth.

The modern movement, its experiments and tendencies, with concentrated study of major writers, Yeats, Joyce, Eliot and others.

208. *American Literature*: Mr. Berthoff.

From the beginnings to the present day.

[212b. *Blake*: Miss Woodworth.]

A study of the poetry, prose, paintings and engravings of Blake, with emphasis on intellectual history and the development of art in the period.

213a. *Mediaeval Narrative*: Mr. Herben.

Vernacular narrative literature of the West, from epic to romance. Works not in English will be read in translation.

[214a.\* *English Prose of the Sixteenth Century*: Mrs. MacCaffrey.]

The main intellectual currents of the period are studied, with reading in the major prose writers.

301a. *Old English Literature*: Mr. Herben.

After some training in Old English grammar, selections from prose and poetry are read.

302a. *The Drama from the Beginnings to 1642*: Mr. Sprague.

A rapid survey of earlier periods is followed by closer study of Elizabethan and Jacobean drama, excluding Shakespeare.

[303b. *English Poetry from Spenser to Donne*: Mr. Sprague.]

The principal poets studied are Spenser, Sidney, Shakespeare (the narrative poems and the sonnets), and Donne.

304. *The Seventeenth Century*: Mrs. MacCaffrey.

Among the writers studied are Bacon; Donne and the Metaphysical poets; Ben Jonson and his school; Sir Thomas Browne. About a third of the time is devoted to Milton, and special attention is given to the thought of the period.

305. *The Eighteenth Century*: Miss Woodworth.

The age of Pope and Swift; the rise of the novel; Dr. Johnson and his circle.

FINAL EXAMINATION: The final examination is in three parts:

1. Literary criticism, literary genres, and problems of style. Based upon the reading of certain critical works of fundamental importance. Each student is expected to draw illustrative material from the fields in which she has elected to work.
2. An examination in one of the following periods. The student must choose a period other than that which embraces her special field.
  - a. The Middle Ages (to 1500)
  - b. The Renaissance (1500-1660)
  - c. Neo-Classicism and Romanticism (1660-1832)
  - d. The Nineteenth and Twentieth Centuries (English or English and American)
3. An examination in one of the following fields of concentration: Old English; Middle English; The Drama to 1642; Elizabethan Literature, non-dramatic; The Seventeenth Century; The Eighteenth Century; Romanticism; Victorian Literature; The Novel; The Drama from 1660 to the Present Time; English and American Literature, 1890-1939; American Literature.

With the consent of the Department an examination in an allied subject may be substituted for the examination in the special field.

HONORS WORK: In the senior year Honors work, consisting of independent reading, reports and conferences, is offered to students of marked ability.

## French

ASSOCIATE PROFESSOR:	MARIO MAURIN, PH.D., <i>Chairman</i> <sup>1</sup>
VISITING PROFESSOR:	WILLIAM J. ROACH, PH.D.
ASSISTANT PROFESSORS:	MICHEL GUGGENHEIM, PH.D. PHILIP KOCH, PH.D.
VISITING LECTURER:	JACQUES CHARPIER
LECTURER:	PAULINE JONES, M.A.
INSTRUCTOR:	BERNARD TOSCANI, M.A.

The major in French includes work in both literature and language. In the first year students are introduced to the study of French literature, and special attention is given to the speaking and writing of French. Two second-year courses treat French literature from the beginning to the present day. In the advanced courses a more detailed study of certain authors, genres and movements is made. One second-year course is devoted to increasing the students' competence in spoken and written French. Students are encouraged to supplement their classroom study of the language by spending the Junior year in France, or a summer in France or French-speaking surroundings, or by living for a year or two in the French house.

REQUIREMENTS IN THE MAJOR SUBJECT: French 101, 201, 202 and one advanced literature course. Students whose preparation for college has included advanced work in language and literature may, with the consent of the Department, be admitted to French 201, and substitute an advanced course for French 101.

ALLIED SUBJECTS: Any other language or literature, European History, History of Art, Music, Philosophy.

1. *Elementary French*: Miss Jones, Mr. Koch.

The speaking and understanding of French are emphasized, particularly during the first semester. The course, which meets five times a week, is the equivalent of two years of school French.

2. *Intermediate French*: Members of the Department.

The emphasis on speaking and understanding French is continued, texts from French literature are read, and short papers are written in French.

101. *Readings in French Literature with Practical Exercises in the French Language*: Members of the Department.

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1. On sabbatical leave for semester II, 1960-61.

The works read are chosen from various periods and genres, and include drama, poetry, novels and short stories. Oral expression and practice in writing are emphasized.

201. *French Literature from the Chanson de Roland to 1800*: Mr. Guggenheim, Mr. Koch, Mr. Toscani.

202. *French Literature from 1800 to 1950*: Mr. Maurin, Mr. Charpier.

203c. *Advanced Training in the French Language*: Miss Jones, Mr. Guggenheim.

[301. *French Lyric Poetry*: Mr. Maurin.]

In the first semester special attention is given to the poetry of the sixteenth and early seventeenth centuries, and in the second, to the poetry of the last hundred years.

302. *French Drama*: Mr. Koch, Mr. Guggenheim.

Special study is made of the drama of the seventeenth and twentieth centuries.

303. *The French Novel from 1700 to 1950*: Mr. Maurin, Mr. Charpier.

[304. *French Essayists and Moralists*: Mr. Koch, Mr. Maurin.]

Man and his world as interpreted by such writers as Montaigne, Pascal, Diderot, Gide, Camus and Sartre.

**JUNIOR YEAR ABROAD:** Students majoring in French may, by a joint recommendation of the Dean of the College and the Department of French, be allowed to spend their Junior year in Paris under one of the junior year plans, organized by Sweet Briar College or Smith College.

**FINAL EXAMINATION:** The final examination is in three parts:

1. An oral examination to test the student's command of the French language.
2. A three-hour written examination on a period of French literature.
3. A three-hour written examination on the development of a literary genre through French literature.

An examination in an allied subject may be substituted for one of the two written examinations.

**HONORS WORK:** On the recommendation of the Department, students in their senior year will be admitted to Honors work consisting of independent reading, conferences and a long paper.

## Geology

PROFESSORS:	EDWARD H. WATSON, PH. D., <i>Chairman</i> LINCOLN DRYDEN, PH.D. <sup>1</sup> DOROTHY WYCKOFF, PH.D.
VISITING LECTURER:	ALFRED GEORGE FISCHER, PH.D. <sup>2</sup>
INSTRUCTOR:	FREDERIC G. LAYMAN, M.S.
ASSISTANT:	KAREN E. WIER, B.S.

Geology seeks to make students more aware of the physical, natural world around them; to teach them how the present landscapes have been formed, and how modern plants and animals have evolved from earlier kinds. Physical processes like erosion, volcanic activity, and earthquakes form one large part of the subject; the history of the earth and the organisms which have peopled it form another. Geology borrows widely from its sister sciences, combining many disciplines into an attack on the problem of the earth itself. An essential part of any geologic training lies beyond the classroom, in field work.

REQUIREMENTS IN THE MAJOR SUBJECT: Geology 101, 201, 202, one advanced course. In addition, at least one of the following first-year courses is normally required: Biology, Chemistry, or Physics. The sixth unit may be chosen in Geology or in an allied field approved by the Department.

ALLIED SUBJECTS: Biology, Chemistry, Physics, Mathematics. Anthropology, Archaeology, Economics or Statistics may be accepted in special cases.

101a. *Physical Geology*: Mr. Watson, Miss Wyckoff, Mr. Layman, Miss Wier.

A study of the atmosphere, weathering, stream action, oceans, glaciers, earthquakes and volcanoes, and of the structures to which they give rise. Three lectures, four hours of laboratory or field work a week.

101b. *Historical Geology*: Mr. Dryden, Miss Wyckoff, Mr. Layman, Miss Wier.

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1. On sabbatical leave semester I, 1960-61.

2. Semester I, 1960-61.

The history of the earth from its beginning, and the evolution of the living forms which have populated it. Three lectures, two afternoons of laboratory or field work a week. A three-day field trip is taken in the spring.

[201. *Mineralogy*: Mr. Watson.]

Crystallography, elementary crystal optics, descriptive and determinative mineralogy, and elementary petrology and economic geology. Three lectures, six hours of laboratory work a week.

202. *Paleontology*: Mr. Dryden, Mr. Fischer.

A systematic survey of animal groups in geologic time; in addition, a study of the environment of fossil life, and theories of evolution.

301. *Structural and Field Geology*: Mr. Watson.

The origin and analysis of the structures of igneous, sedimentary and metamorphic rocks, and geological surveying. Three lectures, six hours of laboratory or field work a week.

[302. *Stratigraphy*: Mr. Dryden.]

The origin and formation of sedimentary rocks; geologic history of typical regions of the United States; elements of petroleum geology; and study of the Ice Age.

303. *Optical Mineralogy* (first semester) and *Petrology* (second semester): Miss Wyckoff, Mr. Watson, Mr. Layman.

The optical properties of minerals and the use of the petrographic microscope. Discussion of the origin and differentiation of igneous rocks. Two lectures, about twelve hours of laboratory a week. Credit: 1½ units.

[305. *Geography*: Miss Wyckoff.]

Discussion of geographic factors such as climate, soils, vegetation, land forms and mineral resources. General principles of economic and political geography. Three lectures, one afternoon of laboratory a week.

306. *The Development of Scientific Thought*: Miss Wyckoff, Miss Lehr, and other members of the faculty.

(See Interdepartmental Course 203, page 110.)

FINAL EXAMINATION: This is in three parts:

1. An examination in General Geology.
2. An examination in some special field in Geology.
3. One of the following:
  - a. An additional special examination in Geology
  - b. A general examination in an allied field
  - c. A written report on a piece of individual work

HONORS WORK: Honors work in any of the advanced fields is offered to any student who has completed the first two years in Geology with distinction.

Certain graduate courses are open to properly trained undergraduates.

## German

ASSOCIATE PROFESSOR:	CHRISTOPH E. SCHWEITZER, PH.D., <i>Chairman</i>
ASSISTANT PROFESSORS:	MARTHA M. DIEZ, M.A. HUGO SCHMIDT, PH.D. JAMES E. WRIGHT, PH.D.
INSTRUCTOR:	KATRIN TAEGER, M.A.

The purpose of the major in German is to lay the foundation for an understanding and appreciation of German literature and civilization. To this end comprehension of the German language, of both the spoken and the printed word, is indispensable; all courses above German 1 are therefore given in German and progressive linguistic training is provided. This work should be supplemented, whenever possible, by living in the German House, or by spending a summer in the Middlebury Summer School or in one of the summer schools of Germany, Austria or Switzerland; and/or by spending the Junior year in Munich or Freiburg with the Wayne University Group.

REQUIREMENTS IN THE MAJOR SUBJECT: The normal course sequence for the major is German 101, 102c, 202, and at least one advanced course. Special consideration will be given to students who have supplemented their linguistic training as outlined above.

ALLIED SUBJECTS: Any language or literature, History, Political Science, Philosophy, Music, History of Art.



1. *Elementary German* (Speaking and Reading): Members of the Department.

The course, meeting five times a week, offers the foundation of the language with emphasis on the aural-oral method. Increased importance is given to reading as the course progresses.

101. *Readings in German Literature*: Mr. Schmidt.

Introduction to the main periods of German literature. Interpretation of texts from the early period to the present.

- 102c. *German Conversation and Composition*: Mr. Wright.

Advanced training in the German language: grammar, discussion of topics, reports, assigned readings.

202. *The Age of Goethe*: Mr. Schweitzer.

German literary movements in the period 1750-1830, with emphasis on the works of Lessing, Goethe, Schiller, and the Romantics.

301. *Introduction to Germanic Philology*: Mr. Wright.

Brief introduction to the linguistic method. History of the language situation in the German-speaking world from the earliest records until the present day.

- [302. *Middle High German Literature*: Mr. Wright.]

Reading of important works, partly in modern German translation, partly in the original.

- [303. *The Classics of the Nineteenth Century*: Mr. Schmidt.]

A survey of German literary developments from the death of Goethe to Nietzsche and Hauptmann, with special emphasis on the great dramatists and lyric poets.

- [304. *Modern German Literature*: Mr. Schmidt.]

Reading and discussion of works from dramatists (Hauptmann, Brecht, Dürrenmatt), novelists (Mann, Kafka, Hesse) and lyric poets (Rilke, George, Hofmannsthal).

- [305. *The German "Novelle"*: Mr. Schweitzer.]

After a brief survey of earlier phases of this form, the course deals with its development from Goethe to Kafka and Thomas Mann.

306. *The German Drama*: Mr. Schmidt.

The development of German drama from the mediaeval mystery play to the epic theatre of Bertolt Brecht.

[307. *German Poetry*: Mr. Schmidt.]

Interpretation of German poetry from the Reformation to the present. Various methods of critical analysis will be used.

FINAL EXAMINATION: The final examination is in three parts:

1. An oral examination on selected masterpieces of German literature.
2. An examination on the history of a literary form, or on the history of the German language, or on an allied subject.
3. An examination on a period of German literature, or on an allied subject, if none has been offered under 2.

HONORS WORK: On the recommendation of the Department, students in their senior year will be admitted to Honors work consisting of independent reading, conferences, and a long paper.

## Greek

PROFESSORS:

RICHMOND LATTIMORE, PH.D., LITT.D.<sup>1</sup>

MABEL LOUISE LANG, PH.D., *Chairman*

VISITING PROFESSOR:

RHYS CARPENTER, PH.D., LITT.D.

INSTRUCTORS:

HARRY C. AVERY, PH.D.

ROSAMOND KENT SPRAGUE, PH.D.

INSTRUCTOR IN LATIN:

ERNEST A. FREDRICKSMEYER, PH.D.

The courses in language and literature are designed to acquaint the students with the various aspects of ancient Greek culture through a mastery of the Greek language and a comprehension of Greek mythology, religion and the other basic forms of expression through which that culture developed. The works of epic and tragic poets, philosophers and historians are studied both in their historical context and in relation to subsequent Western thought.

REQUIREMENTS IN THE MAJOR SUBJECT: Greek 1, 101, 201, 202 or 204, and 301. The fields of specialization in Greek 301 will be decided by each student in consultation with the Department.

ALLIED SUBJECTS: Ancient History, Classical Archaeology, any language, Philosophy.

1. *Elementary Greek*: Mrs. Sprague.

Elements of grammar with prose composition and selected reading from ancient authors and the *New Testament* in the first semester; in the second semester, the *Apology* of Plato.

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1. On leave of absence and sabbatical leave for the year 1960-61.

101. *Herodotus and Tragedy*: Miss Lang, Mr. Avery.

Private reading and prose composition are required.

102c. *Homer*: Mrs. Sprague.

204. *Thucydides and Aeschylus*: Mr. Avery.

Private reading and prose composition are required.

[301. *Hesiod, Lyric, and Aristophanes*: Miss Lang, Mr. Lattimore.]

The student selects her work from this field in consultation with the Department.

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203.\* *Greek Literature in Translation*: Miss Lang, Mr. Avery.

The epic, lyric and dramatic poetry as well as the early prose works are examined and interpreted as expressions of Greek culture.

FINAL EXAMINATION: The final examination for students majoring in Greek consists of:

1. Sight Translation of Greek to English.
2. Two papers from the following fields: Homer, Attic Tragedy, Lyric Poetry and Aristophanes, Fifth-Century Historians, Fourth-Century Attic Prose. A student may substitute for one of these, a paper in one of the Allied Subjects.

HONORS WORK: Honors may be taken either in conjunction with advanced courses or after their completion.

## History

PROFESSORS:	CAROLINE ROBBINS, PH.D., <i>Chairman</i> <sup>1</sup> FELIX GILBERT, PH.D., <i>Acting Chairman</i>
ASSOCIATE PROFESSOR:	ARTHUR P. DUDDEN, PH.D.
ASSISTANT PROFESSORS:	DAVID J. HERLIHY, PH.D. RAYMOND F. BETTS, <i>D. d'Univ.</i> , PH.D.
LECTURER:	MARY MAPLES, PH.D.
INSTRUCTOR:	JANE SCHWARTZ BENJAMIN, PH.D.

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PROFESSOR OF LATIN:	THOMAS ROBERT SHANNON BROUGHTON, PH.D. <sup>2</sup>
INSTRUCTOR IN LATIN:	LYDIA HALLE LENAGHAN, PH.D.

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1. On sabbatical leave for the year 1960-61.

2. On leave of absence and sabbatical leave for the year 1960-61.

The chief aim of the History major is to give the student a sense of historical perspective and an insight into historical method. The development of ideas and institutions—political, social and economic—is stressed rather than the accumulation of data about particular events. At the same time a more intensive study of certain topics and periods is required of every student in order to train her in the use of documents and to enable her to evaluate different kinds of source material. Extensive reading is assigned in all courses to familiarize History majors with the best historical writing and, in every year course except History 101, critical or narrative essays are required.

**REQUIREMENTS IN THE MAJOR SUBJECT:** In general, students are expected to offer four units of History and two units of allied work, the selection of courses depending upon the student's desire to specialize in Modern, Mediaeval or Ancient History. Students concentrating in Modern History must take some work in Ancient or Mediaeval History. History 301 is required of all students offering Modern History for the Final Examination; History 305, for all students offering Mediaeval History, or an equivalent approved by the Department.

**ALLIED WORK:** Courses in Economics and Political Science are recommended for History majors. Advanced courses in Philosophy, History of Art, Literature, Anthropology and Sociology are accepted as allied work if the subject matter is related to that of the History courses elected. For students specializing in Mediaeval and Ancient History, Greek, Latin and Archaeology are especially recommended.

101. *Mediaeval and Modern Europe:* Members of the Department.

The purpose of this course is to give a broad view of the development of European civilization from the fall of Rome to the present day as a general background for courses in other departments as well as for more advanced history courses. Students who have had a general survey in school in their last two years should elect instead of 101: 201, 202, 203, 204, 207 or 208.

[201. *History of England to 1783:* Miss Robbins.]

The treatment is topical, although a general chronology is maintained. Prehistoric, Roman, Saxon, Norman and later English society, constitutional, economic and intellectual devel-

opment are among the subjects studied. Ireland, Scotland and Wales receive special attention. This course is open to all students. Given in alternate years.

202. *History of the United States*: Mr. Dudden.

A survey of American civilization to the present day. The first semester covers colonial and national developments to the end of the Civil War period. The second semester describes the emergence of modern America.

203. *Mediaeval Civilization*: Mr. Herlihy.

Western European development from the fall of Rome to about 1350. Economic, institutional and intellectual developments in the major kingdoms of the West and the history of the Latin Church will be included. Given in alternate years.

204a. *Revolutionary Europe 1787-1850*: Mr. Betts.

About one half of the semester is devoted to the French Revolution; the second half to the spread of revolutionary ideas and the idea of nationalism throughout Western Europe during the Napoleonic period and the first half of the Nineteenth Century culminating in the Revolution of 1848.

204b. *Europe and Its Expansion in the Nineteenth Century*: Mr. Betts.

European, continental, and overseas development from the period of the Revolution of 1848 until the end of the Boer War in 1902. Stress will be placed on industrial developments, imperialism; on European activities in Africa, Asia and the Near East.

205.\* *Ancient History*: Mrs. Lenaghan.

The first semester is devoted to study of the history of the ancient Near East and of Greece to the rise of Macedon; the second to the history of Rome and the hellenistic world to the reign of Constantine I. The course demands essays, and reading of typical sources for each period.

206. *History of Russia*: Mr. Herlihy, Mr. Gilbert.

A survey of Russian history until the Revolution of 1917. The first semester is devoted to Russian history until Peter the Great; special emphasis will be placed on the Byzantine background of Russian history. The second semester deals with Russia under Tsarism.

207a. *The Rise of the Americas*: Miss Maples.

A comparative study of the colonial process and revolutionary movements in the Americas. Particular emphasis will be placed on developments in Latin America.

[208. *Social and Economic History of Mediaeval and Early Modern Europe*: Mr. Herlihy.]

Topics considered include European economic geography, agricultural settlements, demographic trends, rise of the manor and seigneurie, rise and development of towns, agricultural and industrial technology, commerce and commercial institutions, social structure and economic theories. Particular attention is paid to the period between the seignorial-urban revolution of the eleventh century and the industrial revolution of the eighteenth.

301. *Europe in the Twentieth Century*: Mr. Betts, Mr. Gilbert.

The first semester reaches and includes the settlement after the first World War; the second, the events from 1919 to the present. The course deals not only with diplomatic events but special emphasis is placed on the internal developments in the European states and on their social structure.

[303a. *The Expansion of the American Nation*: Miss Maples.]

The period stressed ranges from the last quarter of the nineteenth century to the end of the first World War. Inquiry is directed to the fundamental problems posed for the United States by industrialism, large-scale immigration, populism, progressivism, and imperialism.

303b. *The American People in the Recent Past*: Mr. Dudden.

The United States in our time, emphasizing historic political, social, economic, and intellectual developments since the first World War.

304a. *English History in the Nineteenth Century*: Mrs. Benjamin.

Special attention is given to the structure of English government and its adaptation to modern economic and social conditions as well as to the growth of the second empire and its institutions. Given in alternate years.

305. *Renaissance and Reformation*: Mr. Gilbert.

The course is concerned with European History from the fourteenth to the sixteenth century. The first term deals with the Renaissance, the second with the Reformation. Emphasis will be placed not only on the political and social developments,

but also on the intellectual history of the period. Given in alternate years.

306a. *The Enlightenment*: Miss Maples.

The intellectual history of the seventeenth and eighteenth centuries is studied in seminar discussions of selected books illustrating, amongst other things, the scientific revolution, the growth of skepticism, the traveler and the movement of ideas, morality and taste, optimism, the philosophic critics and analysts of government, law and international relations. Open only to upperclassmen.

306b. *Great Historians*: Miss Maples.

Each week the work of one or two historians is read and discussed in relation to the historical and scholarly presuppositions of its age. Emphasis is laid on reading and analysis rather than on any attempted survey of historical literature. The course, however, pursues a roughly chronological order starting with the Greeks and ending with Spengler and Toynbee.

**FINAL EXAMINATION:** The final examination for students in History consists of three papers, two of which must deal with general European history. Unless special permission is given by the Department these two fields should form a sequence in medieval or in modern history. The fields offered are as follows:

1. Ancient History to A.D. 378 (Special field)
2. History of Europe 378 to 1300
3. History of Europe 1300 to 1648
4. History of Europe 1648 to 1830
5. History of Europe 1830 to 1950
6. History of England (Special field)
7. History of the United States (Special field)
8. History of Russia (Special field)

The papers in Ancient, English, Russian and American history will be based on concentrated study of a special field selected by the Department to meet the needs of the senior class. With the consent of the departments concerned a student may write her third paper in a field of allied work.

**HONORS WORK:** Students admitted to this work meet the instructor regularly for the discussion of reading in a selected period. An essay based on source material must be presented before May 1. The award of the degree with Honors in History will depend on the character of this honors paper and on the candidate's performance in the final examination.

## History of Art

VISITING PROFESSORS: ALEXANDER COBURN SOPER, M.F.A., PH.D.  
CHARLES MITCHELL, M.A., B.LITT.

ASSOCIATE PROFESSORS: JAMES W. FOWLE, PH.D., *Chairman*  
WILLIAM C. LOERKE, M.F.A., PH.D.

INSTRUCTOR: GERALD M. ACKERMAN, M.F.A.

ARTIST IN

RESIDENCE: FRITZ JANSCHKA

The history of art is studied as an historical discipline. The Department normally offers an introductory course and a series of special courses. Workshop supervision is also offered by the Artist in Residence, for which there is no tuition fee and academic credit is not granted.

REQUIREMENTS FOR THE UNDERGRADUATE MAJOR: A minimum of four full-year courses (or the equivalent) is required, consisting of the introductory course and three others. A 200 course may be modified to count as advanced at the discretion of the Department.

ALLIED SUBJECTS: History, Latin, Greek, Modern Languages, Archaeology; others in consultation with the Department. It is advisable for anyone contemplating a major in the history of art to consult the Department as early as possible in her college career.

101. *Introduction to Art History*: Mr. Mitchell, Mr. Loerke, Mr. Ackerman.

The course is designed as an introduction to the methods and scope of art history in the field of Western art from mediæval to modern times. Studio work, two hours weekly, with Mr. Janschka is also required.

201. *Mediaeval Art*: Mr. Loerke.

Selected topics and works from the fourth to the fourteenth centuries.



302. *Renaissance Art*: Mr. Mitchell.

An advanced course on European Renaissance art from the fourteenth to the sixteenth centuries.

203. *Baroque Art*: Mr. Ackerman.

European art from the late sixteenth to the early eighteenth centuries.

204. *Modern Art*: Mr. Fowle.

European art from the late eighteenth to the early twentieth centuries with emphasis on French painting.

Haverford College

21-22. *American Art*: Mr. Fowle.

The arts in America from colonial times to the recent past.

**FINAL EXAMINATION:** The final examination for students majoring in the History of Art consists of three parts of three hours each:

1. An examination conducted with slides and/or photographs testing the student's ability to identify important monuments and to analyze stylistic and iconographic elements within the field of major concentration.
2. A written examination on fundamental problems of style, evolution and cultural relationships in art.
3. A detailed examination on some special field of European or Far Eastern art history, chosen by the individual student after consultation with the Department.

**HONORS WORK:** Honors work is offered to students recommended by the Department.

## History of Religion

**PROFESSOR OF LATIN:** AGNES KIRSOPP MICHELS, PH.D.<sup>1</sup>

**PROFESSOR OF PHILOSOPHY**

**AND RELIGION:** Appointment to be announced.

Courses in the History of Religion may be taken as electives or in connection with certain major fields as allied work. Philos-

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1. On sabbatical leave for the year 1960-61.

ophy of Religion may be taken in the Department of Philosophy as one of the fields for the Final Examination in the Major Subject.

No major is offered in the History of Religion.

[103. *Literary History of the Bible*: Mrs. Michels.]

The history of the Bible, with special emphasis on analysis of text and on literary forms.

201a. *Comparative Religion*: Appointment to be announced.

[201b. *Judaism and Early Christianity*.]

203a. *Philosophy of Religion*: Appointment to be announced.

203b. *Mediaeval Philosophy*: Appointment to be announced.

## Italian

PROFESSOR: ANGELINE HELEN LOGRASSO, PH.D., *Chairman*

INSTRUCTOR: BERNARD TOSCANI, M.A.

The aims of the major are to acquire a knowledge of the Italian language and literature and to acquire an understanding of Italian culture and its contribution to Western civilization. Majors in Italian are urged to spend the Junior Year in Italy or to study in approved summer schools in Italy or in the United States.

REQUIREMENTS IN THE MAJOR SUBJECT: Italian 1, 201, 202, and two other advanced courses.

ALLIED SUBJECTS: Any other language or literature, History, History of Art, Philosophy, Music, Political Science; with departmental approval, any other field allied to the student's special interests.

1. *Italian Language*: Miss Lograsso, Mr. Toscani.

A practical knowledge of the language is acquired through hearing, speaking, writing, and reading, going from concrete situations to the expression of abstract ideas and with a gradual introduction to the reading of Italian literature. The course meets five times a week. Collateral work in the language laboratory will be required.

101. *Intermediate Course in the Italian Language*: Mr. Toscani.

Readings from modern Italian authors and topics assigned for composition and discussion.

[102c.\* *Dante in English Translation*: Miss Lograsso.]  
*The New Life and Divine Comedy.*

103c.\* *Literature of the Italian Renaissance in English Translation*: Miss Lograsso.

From Petrarch to Tasso; pastoral literature; literary criticism and aesthetic theories of the Renaissance, with special reference to their influence on other literatures.

[201. *Classics in Italian Literature*: Miss Lograsso.]

Reading and explanation of texts, with a study of literary history; conducted mostly in Italian.

202. *Dante*: Miss Lograsso.

The *Vita Nuova* and *Divina Commedia*, with some attention to the minor works. With departmental approval, open to anyone who can read Italian.

302c. *Advanced Course in the Italian Language*: Miss Lograsso.  
 Advanced work in composition.

[303. *Italian Literature of the Rinascimento*: Miss Lograsso.]

304. *Italian Literature of the Romantic Period*: Miss Lograsso.

### JUNIOR YEAR ABROAD

Students approved by the Department and the Dean of the College may be recommended for the Junior year in Perugia and Florence under the auspices of the Smith College Group.

FINAL EXAMINATION: The final examination consists of three parts:

1. The Italian Language: ability to understand and speak the spoken idiom; and ability to write it.
2. Italian Literature and Literary History.
3. The study of a single genre or topic throughout Italian literature, or a paper on an allied subject.

For the second part, the emphasis may be placed on the Mediaeval, Renaissance, Romantic or Modern period.

HONORS WORK: After the completion of the second-year course a student may be recommended for Honors in Italian. The student works in a special field adapted to her own interest under the direction of the Department.

## Latin

PROFESSORS: THOMAS ROBERT SHANNON BROUGHTON, PH.D.<sup>1</sup>  
 BERTHE MARIE MARTI, PH.D., *Acting Chairman*  
 AGNES KIRSOPP MICHELS, PH.D.<sup>2</sup>

### VISITING

PROFESSOR: LILY ROSS TAYLOR, PH.D.  
 INSTRUCTORS: ERNEST A. FREDRICKSMEYER, PH.D.  
 LYDIA HALLE LENAGHAN, PH.D.  
 GABRIELE SCHOEPFLICH HOENIGSWALD, M.A.

### ASSISTANT

#### DEAN OF

THE COLLEGE: KATHERINE A. GEFFCKEN, M.A.

The major in Latin is planned to give the students familiarity, through careful reading in the original, with the most important works of Latin literature and an understanding of Roman civilization as revealed in literature. A further aim of the major is to give the students some sense of the importance of Roman literature in our tradition and of the contribution of Roman civilization to the modern world. Study of language and style is an essential part of the work, but only one course is entirely devoted to such study. Students are given an opportunity to choose whether they wish to work intensively on literary criticism or on problems dealing with Roman civilization.

REQUIREMENTS IN THE MAJOR SUBJECT: Latin 101, 201 and either 301 or 302. Honors students are required to take Latin 203. Students who plan to teach Latin are advised to take this course.

ALLIED SUBJECTS: History, Classical and Near Eastern Archaeology, Greek, History of Art, History of Religion, Philosophy, any modern literature.

1. *Elementary Latin*: Mrs. Michels, Miss Marti.

This course is planned to cover three units of entrance Latin. Students who have completed it satisfactorily may take Latin 101.

2. *Intermediate Latin*: Mrs. Hoenigswald, Mrs. Lenaghan.

The course includes a review of grammar and reading in prose and poetry equivalent to two years of entrance Latin. Prerequisite: two units of entrance Latin.

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1. On leave of absence and sabbatical leave for the year 1960-61.

2. On sabbatical leave for the year 1960-61.

101. *Latin Literature*: Miss Marti, Mrs. Lenaghan, Mr. Fredricksmeier, Miss Geffcken.

Students with four units of entrance Latin will be placed in a separate section. Selections will be read from the poems of Catullus, a play of Plautus, the *Eclogues* of Vergil and from Lucretius in the first semester; and from Livy's *History* and the *Odes* of Horace in the second. Prerequisite: at least three units of entrance Latin.

- 201a. *Plautus, Terence, and Horace*: Mr. Fredricksmeier.

Reading in the plays of Plautus and Terence during the first half of the semester and from the *Satires* and the *Epistles* of Horace during the second.

- 201b. *Latin Literature of the Silver Age*: Miss Marti.

Reading from the works of the chief authors with special attention to the development of literary types during the period.

- 202c.\* *Mediaeval Latin Literature*: Miss Marti.

The reading includes selections from the most important mediaeval writers from St. Augustine to Thomas Aquinas. Prerequisite: four units of entrance Latin or Latin 2, or Latin 101.

203. *Latin Style*: Mrs. Hoenigswald.

A study of the style and technique of the main Roman authors and of the chief metres of Roman poetry with practice in the writing of Latin prose and verse. This course may be taken as one half-unit throughout the year by students wishing to omit the material on versification.

- 301a. *Vergil's Aeneid*: Mrs. Lenaghan.

- 301b. *Tacitus and Livy*: Mr. Fredricksmeier.

- [302a. *Cicero and Caesar*: Mrs. Michels.]

- [302b. *Lucretius*: Mrs. Lenaghan.]

**FINAL EXAMINATION:** The final examination for students majoring in Latin consists of three three-hour papers in the following fields:

1. Latin Sight Translation.
2. An examination on one of the following subjects:
  - a. Latin Literature of the Republic
  - b. Latin Literature of the Empire
  - c. Latin Literature of the Ciceronian and Augustan Age
  - d. Roman History from the Sources (100 B.C. to 70 A.D.)

3. An examination on one of the following subjects:
- An allied subject (Students are advised if possible to take the third paper in Greek)
  - A second subject from Group 2 (Choice must avoid duplication of material)
  - The development in Latin literature of an important literary type
  - An important period or type in Mediaeval Latin Literature
  - Latin Prose Style

**HONORS WORK:** Honors work either in classical or in mediaeval Latin is offered to qualified seniors. The subject will be determined by the interests of the student. The work is carried out under the direction of one member of the Department and the results are presented in a paper.

## Mathematics

**PROFESSORS:**

JOHN C. OXTOBY, M.A., *Chairman*<sup>1</sup>  
 MARGUERITE LEHR, PH.D.,  
*Acting Chairman*

**ASSOCIATE PROFESSOR:**

FREDERIC CUNNINGHAM, JR., PH.D.

**LECTURER:**

LOUIS DE BRANGES, PH.D.

**ASSISTANT:**

DOROTHEA J. RHEA, M.A.

The major is designed to provide a balanced introduction to the subject, emphasizing its nature both as a deductive and as an applied science, at the same time providing the technical foundation for more advanced study. The courses in calculus are basic for all applications of mathematical analysis and for more advanced work in function theory. The courses in algebra and geometry introduce the student to some of the unifying ideas and postulational methods that are characteristic of much of modern mathematics.

**REQUIREMENTS IN THE MAJOR SUBJECT:** Mathematics 101, 201, 202C, 301, 303a, and at least one other advanced half course.

**ALLIED SUBJECTS:** Chemistry, Economics, Philosophy, Physics and Psychology.

101. *Analytic Geometry and Calculus:* Miss Lehr, Mr. Cunningham.

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1. On leave of absence for the year 1960-61.

Plane analytic geometry, including the necessary elements of trigonometry; Differential Calculus of both algebraic and transcendental functions; an introduction to integration. The interplay between mathematical ideas and applications is stressed.

201. *Second Year Calculus*: Mr. de Branges, Mr. Cunningham.

The definite and indefinite integral, infinite series, partial derivatives, multiple integrals, differential equations, with applications to geometry, physics, and chemistry.

202c. *Solid Analytic Geometry and Algebra*: Miss Lehr.

Determinants, vectors, matrices, and selected topics from the Theory of Equations; linear algebra motivated by and applied to space geometry; classification and transformation of planes and quadric surfaces.

301. *Advanced Calculus*: Mr. de Branges.

The classical theory of real functions, based on Cantor's construction of the real number system; the Riemann integral, functions defined by power series, Fourier series, functions of several variables. Prerequisite: Mathematics 201.

[302b. *Introduction to Geometric Theories*: Miss Lehr.]

Analytic generalizations and group-theoretic classification, as related to postulational methods and the problem of introducing coordinates. Development motivated from the basic projective, Euclidean, and non-Euclidean space theories. Prerequisite: Mathematics 202c.

[303a. *Introduction to Abstract Algebra*: Miss Lehr.]

Permutations, linear transformations, abstract groups, rings, and fields; postulational characterization of number systems. Prerequisite: Mathematics 202c.

304a. *Theory of Probability and Statistics*: Miss Lehr.

Mathematical formulation of problems of statistical inference, exhibiting the inherent probability aspect. Probability distributions for discrete and continuous ranges; sampling theory; central limit theorems; tests of hypotheses. Prerequisite: Mathematics 201.

[305b. *Topics in Differential Geometry*: Miss Lehr.]

[310. *Theory of Functions of a Complex Variable*: Mr. Oxtoby.]

Special functions, conformal mapping, the general theory according to Cauchy, singular points, Laurent series, series of

partial fractions, infinite products, elliptic functions. Prerequisite: Mathematics 301.

311b. *Differential Equations*: Mr. de Branges.

General methods, existence theorems, linear equations and Wronskians, oscillation and separation theorems, partial differential equations and boundary-value problems.

204.\* *Introduction to Probability and Statistics*: Mr. Cunningham.

A course designed to develop the mathematical vocabulary necessary for study of quantitative data. Descriptive methods for frequency distributions and time series; correlation. Elements of probability, sampling, and tests of significance.

FINAL EXAMINATION: The final examination consists of three parts: (a) an examination in analysis, (b) an examination in algebra and geometry, and (c) an examination in some particular branch of advanced analysis or geometry, or in an allied field.

HONORS WORK: Qualified students are admitted to Honors work on recommendation of the Department.

## Music

PROFESSOR AND DIRECTOR  
OF CHORUS:

ROBERT L. GOODALE, A.B., B.MUS.,  
A.A.G.O., *Chairman*<sup>1</sup>

PROFESSOR AND DIRECTOR  
OF ENSEMBLE GROUPS:  
VISITING PROFESSOR:

AGI JAMBOR, M.A.  
HORACE ALWYNE, F.R.M.C.M.,  
*Acting Chairman*

ASSISTANT PROFESSOR:

SYLVIA W. KENNEY, B.MUS., PH.D.

INSTRUCTOR:

ROBERT SUDERBURG, M.MUS.

ASSISTANT:

ELIZABETH E. BOOTH, M.A.

DIRECTOR OF ORCHESTRA:

WILLIAM REESE, PH.D.

The purpose of the Music major is to enable the student to appreciate the significance of music from an historical and sociological as well as from an aesthetic point of view and to develop a technique of intelligent listening, a faculty of critical judgment, and the ability to use the materials of music as a means of expression for creative talent.

Students in the courses in History and Appreciation of Music must devote two hours or more a week to listening to gramophone records assigned by the Department.

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1. On sabbatical leave for the year 1960-61.



REQUIREMENTS IN THE MAJOR SUBJECT: Music 101, 102, and at least two and one-half units of additional work, the selection of courses depending upon the student's desire to specialize in the history and literature of music or the technique of composition. A student intending to major in Music must have sufficient knowledge of pianoforte or organ playing to enable her to play music of the technical difficulty of a Bach figured chorale. She is strongly urged to be a member of the Chorus or the Orchestra and/or an Ensemble Group.

ALLIED SUBJECTS: History, History of Art, Modern Languages, English, Greek, Latin, Philosophy, History of Religion.

101. *An Introduction to the History and Appreciation of Music*: Miss Kenney.

A general survey of music in western civilization, with emphasis on the evolution of polyphonic music from the tenth to the twentieth century.

102. *Music Materials*: Mr. Suderburg.

A course in the elements of theory. The study of harmony and counterpoint, simple formal analysis, and an introduction to orchestration.

201. *The Romantic Period*: Mr. Alwyne.

An intensive study of nineteenth-century music. The Symphonic Poem, Art-Song and Music-Drama. Expansion of orchestral and pianoforte technique; development of symphonic and chamber-music forms; growth of nationalism. Prerequisite: Music 101 or its equivalent.

202. *Advanced Theory and Analysis*: Mr. Suderburg.

A continuation of Music 102, with emphasis on analysis (harmonic, contrapuntal and formal) of larger forms. Prerequisite: Music 102 or its equivalent.

203c. *Bach*: Mme Jambor.

Prerequisite: Music 101 or its equivalent.

204c. *The Classical Period*: Miss Kenney.

Prerequisite: Music 101 or its equivalent.

301a. *Opera and Music Drama*: Mr. Alwyne.

The evolution of opera from Gluck to Berg. Prerequisites: Music 101 and 102 or their equivalents.

301b. *Music of the Twentieth Century*: Mr. Alwyne.

The continuing stream of romanticism in modern adaptations. Neo-classicism and Expressionism. Experimental new phases in linear counterpoint, polyrhythms, polytonality and micro-tonality. Prerequisites: Music 101, 102, and 202 or their equivalents.

[302a. *Mediaeval Music*: Miss Kenney.]

The rise of liturgical music in the early Christian Church. The development of polyphony in the tenth century, and the evolution of sacred and secular music up to 1450. Prerequisites: Music 101, 102 or their equivalents. Alternate with Music 301a.

[302b. *Renaissance and Baroque Music*: Miss Kenney.]

The great periods of vocal counterpoint during the fifteenth and sixteenth centuries. The creation of new forms in the seventeenth century and the development of dramatic and instrumental music up to the time of Bach. Prerequisites: Music 101 and 102 or their equivalents. Alternate with Music 301b.

[303a. *Orchestration*: Mr. Goodale.]

Prerequisites: Music 101, 102, and 202 or their equivalents. Music 202 may be taken concurrently with this course.

304c. *Interpretation of Keyboard Music, Seventeenth Century to the Present*: Mme Jambor.

Prerequisites: Music 101 and 102 or their equivalents.

[305. *Free Composition*: Mr. Goodale.]

This course is designed for those students whose chief interest lies in the field of composition. It may be taken only with the permission of the instructor.

**HONORS WORK:** Honors work is offered for students recommended by the Department.

**FINAL EXAMINATION:** The final examination consists of three parts with three-hour papers in each:

1. The History of Music.
2. The Theory of Music.
3. Special field, which may be taken in an allied subject.

The following organizations, carrying no academic credit, are sponsored by the Department:

*The College Chorus*, a group of about 90 members. The Chorus participates in concerts with choruses from men's col-

leges and also takes part in the College chapel services. Major works for women's chorus and mixed chorus are studied and performed. The Double Octet, drawn from the Chorus on a competitive basis, frequently sings at concerts and occasionally goes on trips as an independent unit.

*The Orchestra*, organized jointly with Haverford College. It plays concerts of its own, and frequently joins the Chorus in the presentation of major works.

*The Ensemble Groups*, also organized jointly with Haverford College. Students in these groups are afforded the opportunity of studying chamber-music literature at first hand, as well as the experience of playing in public at student recitals.

Lessons in pianoforte, organ and voice may be taken at the student's expense, with no academic credit. Lessons in other instruments may be arranged locally or in Philadelphia. The Department will be glad to assist in these arrangements.

## Philosophy

PROFESSORS:	MILTON CHARLES NAHM, B.LITT., PH.D., <i>Chairman</i> JOSÉ MARIA FERRATER MORA, <i>Lic. F.L.</i> ISABEL SCRIBNER STEARNS, PH.D.
VISITING PROFESSOR:	PAUL SCHRECKER, PH.D., LL.D.
ASSOCIATE PROFESSORS:	HUGUES LEBLANC, PH.D. GEORGE L. KLINE, PH.D.
INSTRUCTOR:	BEATRICE YAMASAKI, M.A.

PROFESSOR OF  
PHILOSOPHY AND  
RELIGION:

Appointment to be announced.

The major work is planned to acquaint the student with the historical and systematic interrelations of the significant philosophic concepts in Western thought, as well as to provide training in the techniques proper to the subject.

The History of Philosophic Thought provides the major students with a common background, training and language. Further study offers not only historical information but insight

into methodology and systematization, with training in the techniques of logic and theory of value. Metaphysics, aesthetics, and the other advanced studies, besides their intrinsic importance, show the relations of philosophy to art, science, history, mathematics, and religion.

The Department aims to provide training sufficiently broad in scope and technical in procedure to equip the student for analytical, critical, and productive speculation.

**REQUIREMENTS IN THE MAJOR SUBJECT:** Students majoring in Philosophy are required to take the first-year course, the second year half-courses in German Idealism, Logic, Ethics, and either Recent Metaphysics, Hegel, or Mediaeval Philosophy, and one advanced course. With permission, students may take second-year courses for third-year credit.

**ALLIED SUBJECTS:** Biology, Chemistry, Economics, English, Greek, French, History, Latin, Mathematics, Music, Physics, Political Science, Psychology, and certain courses in History of Religion and Sociology and Anthropology.

101. *History of Philosophic Thought:* Mr. Nahm, Miss Stearns, Mr. Schrecker, Mr. Leblanc, Mr. Kline, Miss Yamasaki.

Some writings of the major philosophers, classic and modern, are studied and discussed.

201a. *German Idealism:* Mr. Ferrater Mora.

The philosophy of Kant.

201b. *Recent Metaphysics:* Miss Stearns.

The metaphysics of Bradley, Bergson, Whitehead, and related thinkers.

202a. *Logic:* Mr. Leblanc.

An introduction to modern logic.

202b. *Ethics:* Mr. Nahm.

The theory and problems of various types of ethics, hedonist, utilitarian, rational and idealist, with particular emphasis upon the analysis of action and judgment, rightness and goodness, and obligation.

203a. *Philosophy of Religion:* Appointment to be announced.

The philosophical problems arising out of religious ideas; the nature and interpretation of religion.

203b. *Mediaeval Philosophy*: Appointment to be announced.

The history of the development of mediaeval philosophy, with more detailed study and discussion of the Thomist solution of the mediaeval problem and the basis of a modern interpretation of Thomism.

204a. *Hegel*: Mr. Kline.

A study of Hegel's philosophy, with emphasis upon *The Phenomenology of Mind* and with some reference to the Hegelian influence on Existentialism.

301a. *Aesthetics*: Mr. Nahm.

Types of aesthetic theory and problems concerning art, fine art, productivity, aesthetic judgment and aesthetic experience.

301b. *Theory of Knowledge*: Mr. Leblanc.

An analysis of the scope, structure, and methods of science in the light of recent philosophy.

302a. *Plato*: Miss Stearns.

A detailed study of some of the later dialogues.

[302b. *Philosophy of History*: Mr. Ferrater Mora.]

The philosophical interpretation of history, its meanings and laws.

303b. *Contemporary Philosophy*: Mr. Ferrater Mora.

An outline and appraisal of some major present-day schools, such as Phenomenology, Existentialism, Logical Positivism, Neo-Scholasticism, Marxism and others.

[304b. *Aristotle*: Mr. Ferrater Mora.]

A study of Aristotle's system, with emphasis upon such fundamental problems as language, substance, change, being, and the Prime Mover.

**FINAL EXAMINATION:** The final examination consists of three papers in the following fields, offering a wide choice of questions: Ancient Philosophy, Modern Philosophy, Systematic Philosophy or Philosophy of Religion. For the first two papers, a subject such as "causation," "mind," "freedom," or "time" is studied in the writings of important philosophers. For the third paper, a field in Philosophy of Religion or the philosophy of an important modern thinker is intensively examined.

HONORS WORK: Honors work consists of independent reading and conferences with the instructor, directed to the preparation of a paper on a subject dealing with the technical problems of philosophy or emphasizing the connection of philosophy with general literature, history, politics, and science, or with some special field in which the student is working.

## Physics

PROFESSOR:	WALTER C. MICHELS, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	ROSALIE C. HOYT, PH.D. JOHN R. PRUETT, PH.D.
ASSISTANT PROFESSOR:	CHARLES MILLER, PH.D.
ASSISTANTS:	ILDIKO VON FENYES, M.A. RICHARD SAKURAI, B.A.

The courses offered to students majoring in Physics emphasize the techniques that have led to our present state of understanding of the material universe rather than facts about the universe; they are designed to relate the individual parts of physics to the whole rather than to treat them as separate disciplines. In her progress from a general survey of the subject in her first-year course to the preparation for the final examination in the senior year, the student applies her growing grasp of experimental and logical techniques to increasingly independent studies of physical phenomena.

REQUIREMENTS IN THE MAJOR SUBJECT: Physics 101, 201a and 202b, and at least one and one-half units of advanced work, to be chosen from 301-305 inclusive; Chemistry 101; Mathematics 101 and 201. A third unit of Mathematics is strongly recommended.

ALLIED SUBJECTS: Biology, Chemistry, Geology, Mathematics, Philosophy, Psychology.

101. *Introduction to Modern Physics*: Miss Hoyt, Mr. Michels.  
A study of the interpretation of the principal phenomena of

classical and modern physics in the light of the developments of the past sixty years. Three lectures and three hours of laboratory a week.

201a. *Electricity and Magnetism*: Mr. Pruett.

Behavior of electric currents, elementary direct current and alternating current circuit theory, magnetic effects of currents, electrostatic phenomena. Three lectures and four hours of laboratory per week. Prerequisites: Physics 101, Mathematics 201 (may be taken concurrently).

202b. *Optics*: Mr. Pruett.

Geometrical optics, interference and diffraction phenomena, polarization. Three lectures and four hours of laboratory per week. Prerequisites: Physics 201a, Mathematics 201 (may be taken concurrently).

301a. *Classical and Statistical Mechanics*: Mr. Michels.

Newtonian mechanics of particles and of rigid bodies, special relativity, applications of mechanics to ensembles with applications to ideal and real gases. Three lectures and four hours laboratory per week. Prerequisites: Physics 201a, 202b, Mathematics 201.

302b. *Atomic and Nuclear Structure*: Miss Hoyt.

Experimental evidence for the properties of atoms and nuclei, development of quantum theory, Bohr theory, introduction to wave mechanics and quantum statistics. Three lectures and four hours laboratory per week. Prerequisites: Physics 301a, Mathematics 201.

304. *Introduction to Theoretical Physics*: Mr. Miller.

The foundations of classical mechanics and electromagnetic theory, including generalized mechanics, vibrating systems, the wave equation, Laplace's equation, Maxwell's equations, electromagnetic waves. Vector analysis and mathematical methods are developed as needed. Four lectures a week. Prerequisites: Physics 201a, 201b, 301a and 302b (may be taken concurrently), Mathematics 201. Mathematics 301 or Chemistry 203 may be substituted for Physics 301a and 302b.

305c. *Physical Measurements*: Miss Hoyt, Mr. Michels.

Precision measurements of electromagnetic, optical and atomic phenomena. Four hours of laboratory a week. Prerequisites: Physics 301a and 302b (may be taken concurrently).

[351.\* *Application of Physics to Biology and Chemistry*: Miss Hoyt.]

The emphasis of this course is divided between the experimental techniques and the theoretical methods of physics. Examples of applications of these methods and techniques will be chosen to meet the major interests of the students. Three lectures and four hours of laboratory a week. Prerequisites: Physics 101, Mathematics 101, and second-year work in Chemistry or Biology.

**FINAL EXAMINATION:** The final examination for students majoring in Physics is in three parts:

1. Foundations of Physical Theory (required of all students).
2. Descriptive Physics. A student may substitute an approved examination in an allied field for this examination.
3. An examination in a special field of physics. The possible subjects include:

Acoustics

Classical Mechanics and Special Relativity

Electricity and Magnetism

Mechanics of the Atom

Optics

Thermodynamics and Statistical Mechanics

**HONORS WORK:** Honors work may be taken by seniors recommended by the Department. It consists of reading and experimental work on some problem of physics.

## Political Science

*The Caroline McCormick Slade Department of Political Science*

PROFESSOR: ROGER H. WELLS, PH.D., *Chairman*

ASSOCIATE PROFESSORS: PETER BACHRACH, PH.D.

MELVILLE T. KENNEDY, JR., PH.D.

GERTRUDE C. K. LEIGHTON, A.B., LL.B.

ASSISTANT:

NANCY B. GILLESPIE, M.A.

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VISITING ASSOCIATE

PROFESSOR OF

CHINESE CIVILIZATION:

EARL H. PRITCHARD, D. PHIL.



The major in Political Science is concerned with study of ideas about the purposes of government and with analysis of the structures and processes of modern political communities.

REQUIREMENTS IN THE MAJOR SUBJECT: Political Science 101a and 102b, one unit of second-year work and one unit of advanced work, and Economics 101. The second-year courses in Political Science are open to students who are not majors in the Department if they have completed one unit in allied subjects. With the permission of the Department, various courses at Haverford College may be taken for major or allied credit.

ALLIED SUBJECTS: Anthropology, Economics, Education, History, Philosophy, Psychology and Sociology. With the permission of the Department, certain courses offered by the modern language departments may be accepted as allied subjects.

101a. *Political Process in the United States*: Mr. Bachrach, Mr. Kennedy.

An introduction to the study of American political behavior. Major attention is given to the political, economic and social beliefs of democracy and to the governmental institutions and processes through which they are expressed. Decision-making and the sharing of power are examined in relation to the individual and to political parties, pressure groups and public opinion.

102b. *World Political Process*: Miss Leighton, Mr. Kennedy.

An introduction to the study of political behavior at the international level. The course deals with the basic institutions, processes, values and resources common to peoples and nation-states.

201a. *Western Political Theory: 1500 to the Present*: Mr. Bachrach.

A study of the fundamental problems of modern Western political thought, based on an analysis of the writings of the leading theorists.

203a. *Political Parties*: Mr. Wells.

The course primarily stresses political parties and elections in the United States but some material from other countries is included. Field work is required during the presidential election campaign.

204b. *American Constitutional Law*: Mr. Bachrach.

A detailed analysis of selected Supreme Court decisions on four or five leading topics.

[206a. *American State and Local Government*: Mr. Wells.]

208b. *Communism and Nationalism in Asia*: Mr. Kennedy.

A survey of the development of modern China, including Sino-Japanese and Sino-Russian relations. The course primarily aims to throw light on the nature of Communist China.

210a. *The Soviet System*: Mr. Hunter, Haverford College.

See Interdepartmental Course 210a, page 110.

[211b. *Britain and the Commonwealth*: Miss Leighton.]

213a. *Government and Politics in East Asia*: Mr. Kennedy.

An examination of both traditional and contemporary political ideas and institutions directed particularly to the question of continuity and change in the present scene. The course focuses on China and Japan.

[301. *The Theory and Practice of Democracy*.]

See Interdepartmental Course 301, page 110.

302b. *Western Political Theory: Plato to 1600*: Mr. Wells.

The course deals with Greek, Roman and Patristic political thought; feudalism and constitutionalism; mediaeval theories of the relation of church and state; and the Protestant Reformation and state absolutism.

[303b. *France and Germany*: Mr. Wells.]

[304a. *Public Administration*: Mr. Wells.]

[305b. *American Political Theory*: Mr. Bachrach.]

306a. *Law and Society*: Miss Leighton.

An introduction to the nature of legal obligation and its relation to selected social institutions. Typical legal problems relating to the family, business and government are discussed.

[307b. *The Problem of Power in Contemporary Society*: Mr. Bachrach, Mr. Baratz.]

309b. *Public Opinion and Propaganda*: Mr. Bachrach.

An analysis of mass communication media in relation to government and special interest groups; socio-political effects of propaganda; theories of public opinion in the light of American politics.

310b. *International Law*: Miss Leighton.

An examination of the doctrines and practices of international law. Traditional material is considered in the context of the contemporary political process, with some emphasis on methodological problems.

311. *Chinese Civilization*: Mr. Pritchard.

See Interdepartmental Course 311, page 110.

**FINAL EXAMINATION:** The final examination consists of two three-hour papers, the first of which is the general examination in Political Science and must be taken by all seniors majoring in the Department. The second represents a more limited field and is to be selected from the following: Political Theory; The Legal Process; The American Political Community; World Political Systems. If desired, the second paper for the final examination may deal with an allied subject. Seniors are expected to attend the weekly senior conference.

**HONORS WORK:** In addition to the course requirements, one unit of Honors work may be taken by Political Science majors under the supervision of members of the Department. This involves a weekly conference by the student with her supervisor; independent reading, research and, where necessary, field work; and a written report or reports on the topic selected, which must be completed by May 1.

## Psychology

PROFESSORS:	MORTON EDWARD BITTERMAN, PH.D., <i>Chairman</i> RACHEL DUNAWAY COX, PH.D.
ASSOCIATE PROFESSORS:	DONALD ROBERT BROWN, PH.D. <sup>1</sup> ROBERT SIMON DAVIDON, PH.D. WILLIAM AUGUST WILSON, JR., M.D., PH.D.
VISITING LECTURERS:	HENRY GLEITMAN, PH.D. JOSEPH JULIUS GREENBAUM, PH.D.
LECTURERS:	DONALD HARTMANN BULLOCK, PH.D. RICHARD CHARLES GONZALEZ, PH.D.
ASSISTANTS:	LOIS-ELLEN DATTA, M.A. WILLIAM ROBERTS, B.A.

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1. On leave of absence for the year 1960-61.

The Department offers to the major student a representative account of methods and findings in the principal areas of psychological inquiry. Problems of application are considered, and the relation of psychology to other natural and social sciences is emphasized. The major program prepares the student for graduate work.

REQUIREMENTS IN THE MAJOR SUBJECT: Psychology 101; two of the following four courses: Psychology 201a, 205b, 301a, 305b; two of the following four courses: Psychology 202b, 302a, 303b, 304b; 307a; and one additional unit in Psychology. Psychology 204a is strongly recommended to students preparing for graduate work.

ALLIED SUBJECTS: Anthropology, Biology, Economics, Education, Mathematics, Philosophy, Physics, Political Science, and Sociology.

101a. *General Psychology*: Mr. Gonzalez.

A survey of basic facts and principles: perception, motivation, emotion, learning, thinking. Three hours of lecture and two hours of laboratory each week.

101b. *Social Psychology*: Mr. Gleitman.

The psychological determinants of social behavior. Three hours of lecture and two hours of laboratory each week. Prerequisite: Psychology 101a.

201a. *Learning and Thinking*: Mr. Bitterman.

Fundamental processes of mammalian learning; verbal learning and retention; meaning and creative thought. Three hours of lecture and four hours of laboratory each week. Prerequisite: Psychology 101.

202b. *Psychological Testing*: Mrs. Cox.

The clinical study of the individual with particular reference to intelligence, special aptitudes and personality. Construction and use of leading instruments, with opportunity for observation and testing. Three hours of lecture and two hours of laboratory each week. Prerequisite: Psychology 101.

204a. *Experimental Methods and Statistics*: Mr. Davidon.

Measurement and the design of experiments; descriptive statistics, probability, association, testing of hypotheses. Three hours of lecture and two hours of laboratory each week. Prerequisite: Psychology 101.

205b. *Perception*: Mr. Davidon.

Differentiation and organization of the physical environment; bodily processes and inner determinants of perceiving; the self and social environment as perceived. Two hours of lecture and four hours of laboratory each week. Prerequisite: Psychology 101.

301a. *Physiological Psychology*: Mr. Wilson.

The bodily basis of experience and behavior. Two hours of lecture and four hours of laboratory each week. Prerequisites: Psychology 101 and Biology 101.

[302a. *Psychology of the Normal Personality*: Mr. Brown.]

Developmental, clinical and experimental evidence relating to the "normal" personality. Supervised case-study. Three hours of lecture each week. Prerequisites: Psychology 101 and 202b.

[303b. *Advanced Social Psychology*: Mr. Brown.]

A seminar on the psychological implications of man's social existence. Each student will work on a special project. Prerequisite: Psychology 101 or permission of the instructor.

304b. *Psychology of the Abnormal Personality*: Mr. Wilson.

Concepts of normality, types of abnormality, methods of investigation, and principles of psychotherapy. Three hours of lecture each week and occasional trips to local hospitals for special lectures and demonstrations. Prerequisite: Psychology 302a.

305b. *Comparative Psychology*: Mr. Bitterman.

The psychology of animals: instinctive activities, motivation, learning, group processes, behavior disorders. Two hours of lecture and four hours of laboratory each week. Prerequisite: Psychology 201a.

306a and b. *Advanced Experimental Psychology*: Members of the Department.

Specialized training in a selected area of investigation. May be taken in either semester or throughout the year. Prerequisite: Permission of the Department.

307a. *History of Psychology*: Mr. Davidon.

A seminar for senior majors in the historical background of contemporary psychology. Two hours each week.

*Comprehensive Survey*: Members of the Department.

Weekly conferences with majors during the second semester of the senior year in preparation for the Final Examination.

FINAL EXAMINATION: The final examination is in three parts:

1. General Psychology.
2. Experimental Methods.
3. A specialized examination in one of the following fields:
  - Comparative Psychology
  - Learning and Thinking
  - Perception
  - Personality, Normal and Abnormal
  - Physiological Psychology
  - Psychological Testing
  - Social Psychology

An Honors Thesis or (with the approval of the Department) an examination in an allied field may be substituted for Part 3.

HONORS WORK: One unit of Honors work may be taken by students nominated by the Department. This unit may be substituted for Part 3 of the final examination.

## Russian

ASSOCIATE PROFESSORS: FRANCES DE GRAAFF, PH.D., *Chairman*  
 GEORGE L. KLINE, PH.D.

LECTURER: GALIA S. BODDE

INSTRUCTOR: RUTH C. PEARCE, PH.D.

PROFESSOR OF ENGLISH: BETTINA LINN, M.A.<sup>1</sup>

The Russian major is designed to offer the students the opportunity to learn both to read and speak Russian and to achieve an understanding of the literature, thought and culture of pre-revolutionary as well as contemporary Russia.

REQUIREMENTS IN THE MAJOR SUBJECT: Russian 1, 101, 201 and one advanced course. Also Russian 203 or History 206 (History of Russia). If a student offers Russian for entrance, Russian 203 or History 206 may be substituted.

ALLIED SUBJECTS: History 204b, 206 (strongly recommended), 301; Political Science 201a, 210; any language or literature, History of Art, Music, Philosophy.

1. *Elementary Russian*: Miss de Graaff, Mrs. Pearce, Mrs. Bodde.

The basic grammar is learnt and enough vocabulary to enable the student to speak and understand simple Russian and to read simple texts.

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1. On sabbatical leave for the year 1960-61.

101. *Intermediate Russian*: Miss de Graaff, Mrs. Pearce.

Grammar review and composition. Introduction to the Russian literary language. Plays, novels, and some contemporary political material are read.

201. *Readings in Russian Literature*: To be announced.

Representative writers of the nineteenth century. Conducted mostly in Russian.

[202.\* *General Readings in Russian*: Miss de Graaff.]

Primarily intended for students who want a good reading knowledge of the language, but are not majoring in Russian. The reading texts cover a wide variety of subject matter, such as history, economics, politics, science, as well as literature. Some lectures in Russian about the cultural background of Russia are included, with oral reports by the students and discussion of specific topics in Russian. Prerequisite: two years of Russian.

[203.\* *Russian Literature in Translation*: Miss Linn.]

The leading Russian writers of the nineteenth century in translation. Students registering for the course should read in the preceding summer the following novels: Dostoevsky's *Crime and Punishment*, Tolstoi's *War and Peace* and two of Turgenev's novels.

An advanced course, given in Russian, is selected from the following:

[301. *Russian Poetry of the Nineteenth Century*: Miss de Graaff.]

302. *Pushkin and His Time*: Miss de Graaff.

[303. *Russian Literature of the Twentieth Century*: Mr. Kline.]

[304. *Social Trends in Nineteenth Century Russian Literature*: Miss de Graaff.]

FINAL EXAMINATION: The final examination for students majoring in Russian consists of three parts:

1. The Russian language: ability to speak and understand the spoken idiom; ability to translate from the Russian.
2. A period of Russian literature.
3. A paper on a single topic of Russian literature or a paper on an allied subject. The Department is especially interested in allied subjects in the social sciences.

HONORS WORK: Honors work is offered to students recommended by the Department.





to the rise of the early civilizations in the Old and New Worlds; the nature of culture and its forms among primitive peoples.

203a. *Primitive Culture*: Mr. Harper.

Analysis of significant studies of culture in selected areas, illustrating the methods and aims of ethnography. Prerequisite: Anthropology 101.

203b. *Primitive Society*: Mr. Harper.

Social structures of preliterate peoples; their functions and the types of sanctions which control their members. Prerequisite: Anthropology 101 and 203a.

204a. *American Archaeology*: Miss de Laguna.

Introduction to the archaeology of the Indians of Middle and North America. Prerequisite: Anthropology 101 or 209b, or Classical Archaeology 101, or permission of instructor.

205b. *Religion of Primitive Peoples*: Mr. Harper.

The nature of primitive religious systems; magic, witchcraft, myth and ritual.

[208a. *Human Paleontology*: Mr. Harper.]

Man's position among the primates; evolutionary processes and the study of fossil man. Physical characteristics and distributions of the races of man. Prerequisite: Anthropology 101, or Geology 101, or Biology 101. [1961-62.]

[209b. *The American Indian*: Miss de Laguna.]

The Indians of Middle and North America as presented in such literary sources as reports of early explorers, anthropological novels, and native autobiographies, revealing ethos and cultural values. [1961-62.]

301b. *Cultural Theory*: Miss de Laguna.

Analyses of the important classical and modern contributions to ethnological theory. Prerequisite: Anthropology 203a.

[303b. *Village India*: Mr. Harper.]

Caste dynamics, political control, economic organization and religion in Hindu Villages.

[304b. *Culture and Personality*: Mr. Harper.]

The formation of personality in various cultural settings. Prerequisite: Anthropology 101 and 203a. [1961-62.]

**FINAL EXAMINATION:** The final examination for students majoring in Anthropology is in three parts:

1. The Nature of Culture.
2. The Development of Culture.
3. A special field or project in Anthropology, or an allied field.

**HONORS WORK:** Honors work is offered to students of marked ability, and will consist of independent reading, reports and conferences, and the preparation of a written report.

#### SOCIOLOGY

The aim of the major in Sociology is to provide the student with a general understanding of the structure and functioning of modern society, its major institutions, groups, values, and of the interrelations of these with personality. Attention is also paid to the major stresses and strains of modern society, and the resultant social problems. Free elective work is offered to those who may be interested in applying their knowledge to the field of social work.

The work of this program is closely integrated with the work in Sociology offered at Haverford College. The student will note that one course is required at Haverford, and that other courses are open for the major work.

**REQUIREMENTS FOR THE MAJOR SUBJECT:** 102a and b, 21a (Haverford), 201b or 206b, 302a, and one further unit of work to be chosen from courses offered at Bryn Mawr or courses above the introductory level at Haverford. In addition, the student is required to take one of the following courses: Anthropology 101, Economics 101, or Psychology 101.

**ALLIED SUBJECT:** Anthropology, Economics, Psychology, Political Science, Philosophy, History and Statistics.

102a. *Introduction to Sociology:* Mr. Schneider.

An analysis of the basic sociological perspectives, methods and concepts used in studying society. Attention will be paid to various forms of social organization; groups, crowds, publics, institutions, organizations. Examples will be drawn from several non-industrial societies.

102b. *Social Institutions:* Mr. Schneider.

Analysis of the structure and dynamics of complex, indus-

trial societies. Examples will be drawn from several societies, but major emphasis is on the United States.

201b. *Social Disorganization*: Mr. Schneider.

Analysis of selected areas of disorganization in modern society; problems of crime, juvenile delinquency, mental disease and mental defect, mass movements.

202a.\* *History and Philosophy of Social Welfare*: Mr. Ross.

American social welfare programs, their heritage and future trends; social work as an institution and profession.

206b. *Industrial Sociology*: Mr. Schneider.

The social structure of various types of industry, businesses and labor unions. The relations of these organizations to society.

[207b. *Race Relations and Minority Groups*: Mr. Schneider.]

The position and problems of several minority groups in American and other societies, relations between minority and majority groups, prejudice and discrimination.

302a. *Social Theory*: Mr. Schneider.

Analysis of the theoretical work of several classical and modern thinkers.

#### SOCIOLOGY AT HAVERFORD

21a. *Social Research*: Mr. Hare.

An analysis of classic and significant studies in the fields of social sciences with a view toward understanding the methods, tools, techniques, and hypotheses of social research. Studies will demonstrate the use of statistical, case, historical and other research procedures. Individual projects.

22b. *Social Research*: Mr. Hare.

Elementary principles and techniques of electronic computer programming in social research.

33a. *Population Policies and Problems*: Mr. Reid.

A study of the restrictive, expansive, and eugenic aspects of national population policies as they are related in demographic theory. Special reference is given to the problems of fertility and mortality, density, immigration and food supply.

35a. and 35b. *The Sociology of Small Groups*: Mr. Hare.

Theoretical and experimental analyses of the structure and interactions systems of small social groups. Special attention is

given to the methodologies of sociometry and field theory and their relevance for economic, political and social situation analysis.

40a. *Race and Ethnic Groups in the Modern World*: Mr. Reid.

An analysis of the secularization of the world's people and the contemporary "minorities" situations in the world; how these situations arise; how they are perpetuated. Special attention is given to theories and methods of analysis.

37a. *The Family*: Mr. Reid.

A study of the institutions designed to guarantee the perpetuation of the group and its cultural heritage in comparative societies. The course will analyze functions, forms and processes of the institutions of marriage and the family. Individual projects.

38a. *The Modern Urban Community*: Mr. Reid.

A study of the social and spatial aspects of modern urban community organizations as influenced by personal, technological, ecological, economic and political factors. Special attention is given to the problems and processes of planning. Individual projects.

45b. *Social Disorganization and Deviant Behaviour*: Mr. Hare.

An analysis of the theories and problems of social disorganization as they are related to conformity and deviancy in human behaviour. The course will be based on a series of specially designed case studies dealing with the situations and roles of the gambler and the speculator, the migrant and the vagrant, the sexual deviant, the alcoholic and the drunkard, the spectator and the performer, the delinquent and the criminal, the conscientious objector and the radical. Lectures, discussions, field trips, reports.

52a. *Issues in Society*: Mr. Reid.

This seminar is designed to treat a sociological situation of current or potential importance, emphasizing the nature and problems of social fact, social values and the social process. The current course will be concerned with sociological aspects of knowledge.

FINAL EXAMINATION: The final examination for students majoring in sociology is in three parts:

1. Sociology.
2. A special field in Sociology.
3. An allied field.

**HONORS WORK:** Honors work is offered to selected students and will consist of independent reading and research, conferences, and the preparation of a written report.

**JOINT MAJOR IN SOCIOLOGY AND ANTHROPOLOGY:** The aim of the major is to provide the student with a general understanding of human society and human culture as these have developed in different parts of the world from prehistoric to modern times. Man's racial and cultural history is traced, and analyses are made of cultural and social institutions of primitive and complex societies. The advanced work is planned to bring together the major contributions in the fields of social and cultural theory.

**REQUIREMENTS IN THE MAJOR SUBJECT:** 101, 102a and b, 21a (HAVERFORD), or another half unit of second-year Sociology 203a, 301b, and 302a.

**FINAL EXAMINATION:** The final examination for students taking the joint major is in three parts:

1. A general field in Anthropology.
2. Sociology.
3. A second field in either Anthropology or Sociology; or an allied field.

**HONORS WORK:** Honors work in the joint major is offered to students recommended by the Department, and will consist of independent reading and research, conferences, and the preparation of a written report.

## Spanish

DEAN OF THE COLLEGE:	DOROTHY NEPPER MARSHALL, Ph.D. <sup>1</sup>
PROFESSOR:	FRANCISCO AYALA, <i>D. en D.</i> , <i>Chairman</i>
ASSISTANT PROFESSOR:	WILLARD FAHRENKAMP KING, Ph.D.
INSTRUCTOR:	MIGUEL GONZALEZ-GERTH, M.A.
PROFESSOR OF PHILOSOPHY:	JOSÉ MARIA FERRATER MORA, <i>Lic. F.L.</i>

The major in Spanish includes work in both literature and language. It includes a two-year survey of Spanish literature, fol-

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1. On sabbatical leave for the year 1960-61.

lowed by more specialized advanced courses dealing with the literature of special periods, or with various literary forms. One course is devoted to training in written and spoken Spanish. Students are encouraged to supplement their course work by spending the Junior year in Spain or a summer in a Spanish-speaking country, or by living in the Spanish House.

REQUIREMENTS IN THE MAJOR SUBJECT: Spanish 101, 201 and at least two advanced courses. Students who spend the Junior year in Spain may substitute an advanced literature course for Spanish 202a.

ALLIED SUBJECTS: Any other language or literature, Economics, History, History of Art, Music, Philosophy, Political Science, and Sociology and Anthropology.

1. *Elementary Spanish*: Mr. Gonzalez-Gerth, Mrs. King.

Grammar, composition, readings on the Spanish and Spanish-American background.

3. *Intermediate Spanish*: Mr. Gonzalez-Gerth.

Intensive grammar review and exercises in composition and conversation.

101. *Masterpieces of Spanish Literature (from 1700 to 1936)*: Mrs. King.

A panoramic view of the development of Spanish literature during the eighteenth, nineteenth and twentieth centuries, emphasizing representative works of each period or literary school: Neoclassicism, Romanticism, Realism, etc.

201. *Masterpieces of Spanish Literature (from beginnings to 1700)*: Mrs. King.

A survey of Mediaeval, Renaissance and Baroque literature, emphasizing the development of the various genres. Special attention is given to the Spanish Golden Age.

202. *Spanish Readings and Composition*: Mr. Ayala.

Designed to aid the student in interpretation of texts, appreciation of stylistic differences, translation, and original composition in Spanish. Assignments are adapted to the needs and level of achievement of the individual student.

- [203a. *Introduction to Latin American History*.]

Conducted in English. A general view of the cultural his-

tory of Latin America. Students majoring in Spanish, or with a sufficient knowledge of the language, will work with original texts.

302a. *The Modern Essay in Spain and Spanish America*: Mr. Ayala.

Essayists and moralists in Spain and Spanish America from the end of the nineteenth century to the present.

302b. *The Spanish American Novel*: Mr. Ayala.

The American novel in the Spanish language: development, special characteristics, relation to other literatures, present tendencies.

[303. *The Modern Novel in Spain*: Mrs. King.]

The Spanish novel from Romanticism to the present, with special emphasis on Galdós, the novelists of the generation of '98, and present trends.

304a. *Drama of the Golden Age*: Mrs. King.

Representative works of Cervantes, Lope de Vega, Tirso de Molina, Calderón and other outstanding dramatists.

304b. *The Age of Cervantes*: Mrs. King.

The development of Cervante's art in the drama, the short story, and the novel, with special attention to *Don Quixote*.

FINAL EXAMINATION: The final examination is in three parts:

1. An oral examination consisting of the explanation and interpretation of a Spanish text in Spanish.
2. A three-hour written examination in Spanish on a period of Spanish literature.
3. A three-hour written examination on the development of a literary genre through Spanish literature.

An examination in an allied subject may be substituted for one of the two written examinations.

HONORS WORK: Honors work is offered to students recommended by the Department. This work consists of independent reading, conferences and a long paper.

## Interdepartmental Courses

The following courses are given by several departments in cooperation. The object is to cut across well-defined areas of knowledge and to show the relationships existing among them.

[202. *Aspects of Eighteenth Century Life and Thought*: Miss Robbins, Miss Northrop, Miss Stapleton.]

203. *The Development of Scientific Thought*: Miss Wyckoff, Miss Lehr, and other members of the Faculty.

The development of scientific ideas is traced against the historical background of other intellectual activities, social changes, and technological inventions. Important scientific concepts and theories are analyzed, and the basic assumptions of scientists of the past are compared with those of the present day. The course is open to students who have had one year of laboratory science in college, and should be of special interest to those majoring in History, Philosophy, Mathematics, or Science.

210a. *The Soviet System*: Mr. Hunter, Haverford College.

An analysis of the structure and functioning of major Soviet economic, political and social institutions. Current arrangements are studied as products of historical development. Present performance and prospects are evaluated. Prerequisites: Economics 101 or Political Science 101a and 102b or History 101. (This course is also listed as Political Science 210a.)

[301. *The Theory and Practice of Democracy*: Mr. Wells, Miss Stapleton, Miss Stearns, Mr. Hubbard.]

[307b. *The Problem of Power in Contemporary Society*: Mr. Bachrach, Mr. Baratz.]

A study of political power, with special reference to current controversies in the United States as to the nature and sources of power and with analysis of the implications for the democratic process. (This course is also listed as Political Science 307b.)

311. *Chinese Civilization*: Mr. Pritchard.

A cultural history of China from earliest times to the mid-nineteenth century.



## Physical Education

DIRECTOR:	IRENE A. CLAYTON, M.S.
INSTRUCTORS:	ETHEL M. GRANT
	GLORIA SCHMIDT, M.A.
	JANET YEAGER

Through the offerings in the Physical Education Department, students are given opportunities to participate in varied fields of both individual and team sports, dance and aquatic activities. Class instruction during the first two years enables the student to learn new skills or to improve her techniques. Inter-class, interhall and varsity schedules of games and tournaments offer all students the experience of competition in sports. Creative interest in modern dance is encouraged through class work and extra-curricular programs. The Department cooperates with the Athletic Association and in promoting the activities of the Dance Club, the Synchronized Swimming Club, and the Outing Club.

The freshman requirement in Physical Education consists of three periods a week throughout the year; part of the Fall, Winter I and Winter II terms will be given over to the study of Rhythms as related to good movement along with the fundamentals of Modern Dance. All of Winter I is devoted to the basic principles of good movement with an especial application to sports activities. The sophomore requirement consists of two periods a week throughout the year. All students must complete the freshman and sophomore requirements satisfactorily, and must pass the swimming test administered at the beginning of the year to every new student who is not excused by the College Physician. Students unable to pass this test are expected to register for beginning swimming. All classes are open to election by upperclassmen. Students transferring from other colleges will have their physical education requirement reviewed by the Director of the Department.

Seasonal offerings from which election may be made are:

FALL: archery, fencing, fundamental skills, golf, hockey, modern dance, riding,\* swimming, tennis, volleyball, and American Red Cross Senior Life Saving Course. WINTER: badminton, basketball, diving, fencing, folk dance, golf, modern dance, skating,\* swimming, volleyball, and American Red Cross Water Safety Instructor Training Course. SPRING: archery, golf, lacrosse, riding,\* swimming, tennis and volleyball.

SWIMMING TEST: one standing dive, back float 2 minutes, tread water one minute, bobbing twice, and swimming any stroke 20 minutes.

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\* Open only to Sophomores, with permission of the Department.

## Academic Awards

THE scholarships listed on the following pages have been made available to able and deserving students through the generosity of alumnae and friends of the College. Many of them represent the income on endowed funds which in some cases is supplemented by an additional grant, usually taken from expendable gifts from alumnae and parents. The awards made from some scholarship endowments are reported in specific amounts. In the case of other awards for which the specific amount is not reported, the stipend is set according to the needs of the student.

Three outstanding national scholarship programs have recently been established by the General Motors Corporation, the National Merit Scholarship Corporation and the Procter and Gamble Company. The Ford Company has a scholarship program for the children of its employees as do other large corporations. In addition to the generous awards made by these companies there are many others made by foundations and by industrial and professional groups. Some of these are regional in designation. Students are urged to consult their schools and community agencies for information in regard to such opportunities.

Scholarship aid is held each year by twenty-six to twenty-eight per cent of undergraduate students. The value of the scholarships ranges widely, but the average grant is approximately \$1000. The Scholarship Committee judges requests for aid on the basis of academic promise and achievement on the one hand, and financial need on the other. Committee decisions take into account letters of recommendation from members of the Faculty and the financial situation of the student as it is presented in application blanks completed by the candidate and her family.

Scholarships are available both to entering students and to those who have completed one or more years of study in the College. Students entering on transfer from other colleges are eligible for scholarships only after the completion of one year of study at Bryn Mawr.

### APPLICATIONS FOR SCHOLARSHIPS TO BE HELD AT ENTRANCE

Application forms for entrance scholarships may be obtained from the Director of Admissions, Taylor Hall, Bryn Mawr College, Bryn Mawr, Pennsylvania. *Applications should be filed by January 31 of the student's senior year in high school.* The form entitled *Parents' Confidential Statements in Support of Applications for Financial Aid* should be returned to the College Scholarship Service, Box 176, Princeton, New Jersey.

Bryn Mawr is participating in the College Scholarship Service of the College Entrance Examination Board. The colleges using the Service join in the belief that scholarships should be awarded to properly qualified students after careful consideration of the financial need of the students and their families. The College Scholarship Service acts as a clearing house for applications, sending to the College the report from parents or guardians. The College itself selects the award winners and decides upon the terms of the awards.

Scholarship applicants who register under the Early Decision Plan will be responsible for obtaining and filing by *October 1* of the senior year both the Bryn Mawr scholarship application and the Parents' Confidential Statement of the College Scholarship Service. Scholarship winners in this group will be notified of awards by December 15.

### UNDERGRADUATE SCHOLARSHIPS

The renewal like the award of scholarships depends on the student's maintaining a good record. Application for the renewal of scholarships must be made annually. The necessary forms may be obtained in the Office of the Dean. Completed forms must be returned to the Dean of the College by March 1.

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The dates in parentheses in the listings on the following pages indicate the year the scholarship was established.

## Scholarships

### SCHOLARSHIPS AWARDED AT ENTRANCE AND TENABLE FOR FOUR YEARS

*Bryn Mawr Alumnae Regional Scholarships* are available to students in all parts of the United States. These scholarships, raised by alumnae, vary in amount but generally cover full tuition. A list of the regional districts and of the Alumnae District Councillors will be found on page 133. The awards are made by local alumnae committees and are announced to the candidates immediately after their notification of admission to the College. Holders of these scholarships who maintain a high standard of academic work and conduct, and who continue to need financial aid after the freshman year, are assured of assistance either from alumnae committees in their districts or from the College. (1922)

*The Florence and Dorothy Child Memorial Scholarship of Bryn Mawr College* was founded by bequest of Florence C. Child of the Class of 1905. The income from this fund of \$115,494 is to be used for the residence fees of one or more students who without such assistance would be unable to live in the halls. Preference is to be given to graduates of the Agnes Irwin School and to members of the Society of Friends. If no suitable applicants are available in these two groups, the scholarship aid will then be assigned by and at the discretion of the proper authorities of Bryn Mawr College to students who could not live in residence without such assistance and who are not holding other scholarships. (1957)

*The Charles E. Ellis Scholarship*, value \$700, tenable for four years, was founded by bequest of the late Charles E. Ellis. It is awarded on the recommendation of the Superintendent of Public Schools of the City of Philadelphia, subject to the approval of the Board of Directors of Bryn Mawr College, to a student educated in the Philadelphia public schools. (1909)

*The Foundation Scholarships*, varying in amount up to full tuition and tenable for four years, are made available by the Trustees of Bryn Mawr College. They may be awarded annually

to members of the Society of Friends who cannot meet the full expenses of tuition and residence. (1894)

*The Priscilla Hunt Scholarship* was given in memory of Priscilla Hunt of the Class of 1950 by her mother and father, Ruth Van Natta Hunt and Leigh L. Hunt. The scholarship, awarded first in 1955-1956 and again in 1959-1960 in the amount of \$1,000 and tenable for four years, will be awarded every four years to a candidate from certain counties in the state of Indiana. (1955)

*The Minnie Murdoch Kendrick Memorial Scholarship*, tenable for four years, was founded by bequest of \$5,000 under the will of George W. Kendrick, Jr., in memory of his wife. It is awarded every four years to a candidate nominated by the Board of Public Education of Philadelphia. The most recent award was in 1959-1960. (1916)

*The Gertrude Howard McCormick Scholarship Fund* was established by gift of \$25,000 by the late Gertrude Howard McCormick. The scholarship, value \$1,000, is awarded to a student of excellent standing, preferably for her freshman year. If she maintains excellent work in college, she may continue to receive scholarship aid through her sophomore, junior and senior years. (1950)

*The Philadelphia Board of Public Education Scholarships* are awarded to graduates of Philadelphia high schools nominated by the Board of Public Education of Philadelphia. (1898)

*The Procter and Gamble Scholarship* provides tuition and an allowance for books and supplies and is tenable for four years. This scholarship program was established by the Procter and Gamble Company "in recognition of the responsibility assumed by private women's colleges in graduating capable, well-informed women." The award is made by Bryn Mawr College. (1955)

*The Lidie C. B. Saul Scholarship*, tenable for four years, is given by the Alumnae Association of the Girls' High School and Normal School of Philadelphia. It is awarded every four years to the graduate of the Girls' High School who enters Bryn Mawr College with the highest grade of that year. (1895)

*Seven College Conference Scholarships* are awarded annually by the Seven College Conference (Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar and Wellesley). One scholarship, varying in amount up to full expenses for tuition and residence, is given annually by each of the colleges in each of three areas: the *far west* (Washington, Oregon, California and Idaho), the *central states* (Kansas, Missouri, Nebraska and Colorado), and the *southwest* (Arizona, Louisiana, New Mexico, Oklahoma, Texas and Arkansas). One of these scholarships is supported at Bryn Mawr by a grant made by the *George F. Baker Trust*. (1950) The others are supported by income from the *Fanny R. S. Peabody Fund* of \$177,927. (1943)

*The Frances Marion Simpson Scholarships*, carrying free tuition and tenable for four years, were founded in memory of Frances Simpson Pfahler of the Class of 1906 by Justice Alexander Simpson, Jr., by gifts amounting to \$20,000. One scholarship is awarded each year to a member of the entering freshman class who cannot meet in full the fees of the College. In awarding these scholarships first preference is given to residents of Philadelphia and Montgomery Counties who have been prepared in the public schools of these counties or at home by parents or guardians; thereafter, under the same conditions, to residents of other counties of Pennsylvania, and, in special cases, to candidates from other localities. Holders of these scholarships are expected to repay the sums advanced to them. If they become able during their college course to pay the tuition fees in whole or in part, they are required to do so. (1912)

*The Trustees' Scholarships*, varying in amount up to full tuition, and tenable for four years, are made available by the Trustees of Bryn Mawr College for students prepared in the high schools of Philadelphia and its suburbs. Two of these scholarships are awarded annually to candidates who have received all their preparation for entrance in Philadelphia high schools and are recommended by the Board of Public Education of Philadelphia; two are awarded annually to candidates who have received all their preparation for entrance in public schools in the suburbs of Philadelphia and are awarded by the College after consultation with the principals of the schools presenting candidates. The amount of the award varies according to the need of the applicant. (1895)

## FOR FOREIGN STUDENTS

*The Chinese Scholarship*, awarded every four years and tenable for four years, comes in part from the annual income of a fund now totalling \$30,027 established by a group of alumnae and friends of the College in order to meet all or part of the expenses of a Chinese student during her four undergraduate years at Bryn Mawr College. (1917)

*The Marguerite N. Farley Scholarships* for foreign students were established by bequest of Marguerite N. Farley. The income from a fund of \$331,425 will be used for scholarships for foreign graduate and undergraduate students covering part or all of their expenses for tuition and residence. (1956)

*The Special Trustees' Scholarship* is awarded every four years to a foreign student. It carries free tuition and is tenable for four years. The scholarship for students from foreign countries was first offered by the Trustees in 1940.

*The Undergraduate Scholarship*, raised and awarded by the Undergraduate Association in consultation with the President and the Director of Admissions, is awarded every four years to a foreign student entering Bryn Mawr. The award is variable in amount but covers as a minimum the cost of tuition. (1938)

*For other four-year scholarships, not in the award of Bryn Mawr College, students should see page 112.*

SCHOLARSHIPS AWARDED AT ENTRANCE  
AND TENABLE FOR THE FRESHMAN YEAR ONLY

*The Bryn Mawr School Scholarship*, instituted by the Board of Managers of the Bryn Mawr School of Baltimore, Maryland, has been offered annually since the College opened in 1885 to the graduate of the Bryn Mawr School who has completed the school course with the greatest distinction and who plans to enter Bryn Mawr College.

*The Alice Day Jackson Scholarship Fund* of \$10,000 was given by the late Percy Jackson in memory of his wife, Alice Day Jackson. (1930)

*The Clara Bertram Little Memorial Scholarship* was founded by Eleanor Little Aldrich, in memory of her mother. The income from a fund now totalling \$10,000 is awarded to a student from New England selected by the President on the basis of merit and financial need. (1947)

*The Louise Hyman Pollak Scholarship* was founded by the Board of Trustees from a bequest of \$5,061 by Louise Hyman Pollak of the Class of 1898. The income from this fund now totalling \$6,666, supplemented by gifts from Julian A. Pollak, is awarded annually to a student from one of the central states, east of the Mississippi River. Preference is given to residents of Cincinnati. (1932)

*The Amy Sussman Steinhart Scholarship*, carrying full tuition, was founded in memory of Amy Sussman Steinhart of the Class of 1902 by her family and friends. The income from gifts now totalling \$11,383 is awarded annually to a student from one of the states on the west coast. (1932)

*The Evelyn and Caroline Warram—Bryn Mawr Scholarship*, carrying free tuition, was given by Mr. and Mrs. James H. Warram. It is to be awarded each year to an entering student from the State of Oklahoma. (1956)

#### SCHOLARSHIPS AWARDED AT THE END OF THE FRESHMAN YEAR AND TENABLE FOR THE THREE SUBSEQUENT YEARS

*The Jeannette Peabody Cannon Memorial Scholarship Fund*, now totalling \$7,405, was established in memory of Jeannette Peabody Cannon, Class of 1919, through the efforts of the New England Alumnae Regional Scholarship Committee, of which she was a member for twenty years. The scholarship is awarded every three years at the termination of the freshman year on the nomination of the Alumnae Scholarship Committee to a promising member of the freshman class residing in New England who needs financial assistance. The scholarship may be held during the remaining three years of her college course provided a high standard is maintained. (1949)

*The Leila Houghteling Memorial Scholarship Fund* in the amount of \$10,000 was founded in memory of Leila Houghteling



of the Class of 1911 by members of her family and a group of her contemporaries. It is awarded every three years on the nomination of the Alumnae Scholarships and Loan Fund Committee to a member of the freshman class in need of financial assistance and is held during the remaining three years of her college course. (1929)

SCHOLARSHIPS AWARDED AT THE END OF THE  
FRESHMAN YEAR AND TENABLE FOR THE  
SOPHOMORE YEAR ONLY

*The Maria Hopper Scholarships*, two in number, were founded by bequest of \$10,000 under the will of Maria Hopper of Philadelphia and are awarded annually. (1901)

*The James E. Rhoads Memorial Sophomore Scholarship* was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958, the Alumnae Association increased the fund to \$25,000, the income from which is awarded annually to a student who has attended Bryn Mawr College for at least one semester, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

SCHOLARSHIPS AWARDED AT THE END OF THE  
SOPHOMORE YEAR AND TENABLE FOR THE  
TWO SUBSEQUENT YEARS

*The Jeanne Crawford Hislop Memorial Scholarship Fund* of \$5,000 was given in memory of Jeanne Crawford Hislop of the Class of 1940 by Mr. and Mrs. John H. Hislop and Mrs. Frederic W. Crawford. This scholarship may be renewed for the senior year. (1939)

*The Serena Hand Savage Memorial Scholarship* was established in memory of Serena Hand Savage of the Class of 1922 by her friends. The income from a fund of \$21,729 is awarded to a member of the junior class who shows great distinction of scholarship and character and who needs financial assistance. This scholarship may be renewed in the senior year. (1951)

SCHOLARSHIPS AWARDED AT THE END OF THE  
SOPHOMORE YEAR AND TENABLE FOR THE  
JUNIOR YEAR ONLY

*The Anna Hallowell Memorial Scholarship* was founded in memory of Anna Hallowell by her family. The income on a fund of \$2,585 is awarded annually to the student in need of aid who has the highest academic record. (1912)

*The James E. Rhoads Memorial Junior Scholarship* was founded in memory of the first President of the College, Dr. James E. Rhoads, by the Alumnae Association of Bryn Mawr College. In 1958, the Alumnae Association increased the fund to \$25,000, the income from which is awarded annually to a student who has attended Bryn Mawr College for at least three semesters, has done excellent work and expresses her intention of fulfilling the requirements for the degree of Bachelor of Arts at Bryn Mawr College. (1898)

*The Mary E. Stevens Scholarship Fund* was given in memory of Mary E. Stevens by former pupils of The Stevens School in Germantown. The income on this fund of \$3,188 is awarded annually. (1897)

SCHOLARSHIPS AWARDED AT THE END OF THE  
JUNIOR YEAR AND TENABLE FOR THE  
SENIOR YEAR ONLY

*The Anna M. Powers Memorial Scholarship* was founded in memory of Anna M. Powers by a gift of \$5,000 from her daughter, Mrs. J. Campbell Harris. (1902)

*The Thomas H. Powers Memorial Scholarship* was founded in memory of Thomas H. Powers by bequest under the will of his daughter, Mrs. J. Campbell Harris. (1902)

SCHOLARSHIPS TENABLE IN ANY YEAR  
AFTER THE FRESHMAN YEAR

*The Book Shop Scholarships* are awarded annually from the profits of the Bryn Mawr College Book Shop and from the income from the Book Shop Fund, which now amounts to \$15,555. (1947)

*The Jacob Fussell Byrnes and Mary Byrnes Fund* was founded in memory of her father and mother by a bequest of \$51,513 under the will of Esther Fussell Byrnes of the Class of 1891. By vote of the Board of Directors the income is used for annual scholarship for students in need of financial aid. (1948)

*The Susan Shober Carey Award* was founded in memory of Susan Shober Carey by a gift totalling \$3,200 from the Class of 1925 and is awarded annually by the President. (1931)

*The Jacob Orie and Elizabeth S. M. Clarke Memorial Scholarship* was established by bequest of \$5,000 from the estate of Elizabeth Clarke and is awarded annually to a student born in the United States or any of its territories. (1948)

*The Class of 1903 Scholarship Fund* was established by gift of \$12,295 on the occasion of the fiftieth reunion of the Class. The income from this fund is to be awarded annually to a member of the freshman, sophomore or junior class for use in the sophomore, junior or senior years. (1953)

*The Class of 1920 Memorial Scholarship Fund* was founded in memory of classmates by the Class of 1920 from reunion gifts totalling \$2,145. The income from the Fund is to be awarded annually. (1955)

*The Julia Cope Collins Scholarship* was established by bequest of \$10,000 from the estate of Julia Cope Collins, Class of 1889. (1959)

*The Alice Perkins Coville Scholarship Fund*, now totalling \$5,000, was established by Agnes Frances Perkins of the Class of 1898 in honor of her sister, Alice Perkins Coville. The income from this scholarship fund is used to aid a deserving student in need of financial assistance. (1948)

*The Regina Katharine Crandall Scholarship* was established by a group of her students as a tribute to Regina Katharine Crandall, Margaret Kingsland Haskell Professor of English Composition from 1918 to 1933. The income from this fund, which now amounts to \$10,225, is awarded on the recommendation of a committee composed of the Dean of the College, a representative of the English Department, and a representative of another department chosen by the Dean, to a sophomore,

junior or senior who in her written English has shown ability and promise and who needs assistance to continue her college work. (1950)

*The E. Merrick Dodd and Winifred H. Dodd Scholarship Fund* of \$2,000 was established by bequest of Dr. and Mrs. Dodd. (1953)

*The Abby Slade Brayton Durfee Scholarship Fund*, which now amounts to \$9,250 was founded in honor of his wife by bequest of Randall Nelson Durfee and increased by Mrs. Durfee and by Randall N. Durfee, Jr. and Mrs. Charles B. Brown of the Class of 1930. Preference in awarding it is given to candidates of English or American descent and to descendants of the Class of 1894. (1924)

*The William Franklin Scholarship Fund* was established by a bequest of \$35,985 from the Estate of Susan B. Franklin of the Class of 1889. The income from this fund is to be used for scholarships for deserving girls, preference being given whenever possible to girls from the Rogers High School, Newport, Rhode Island. (1957)

*The Katharine Hepburn Scholarship*, value \$1,000, given for the year 1960-1961, is awarded in honor of Katharine Hepburn to a student interested in the study of drama and motion picture, and to the cultivation of English diction and of literary appreciation. (1952)

*The Katharine Houghton Hepburn Scholarship* given in memory of Katharine Houghton Hepburn of the Class of 1900 is awarded for her junior or senior year to a student who has demonstrated both ability in her chosen field and independence of mind and spirit. (1957)

*The George Bates Hopkins Memorial Scholarships* were founded in memory of her father by a gift of \$10,000 from Mrs. Elizabeth Hopkins Johnson. Preference is given to students of Music and, in default of these, to students majoring in History, and thereafter to students in other departments. (1921)

*The Evelyn Hunt Scholarships*, two in number, were founded in memory of Evelyn Hunt by bequest of \$10,000 under the will of Evelyn Ramsey Hunt of the Class of 1898. (1931)

*The Jane Lilley Ireson Scholarship* was established by a bequest of \$227,657 under the will of Jennie E. Ireson. The income on each \$5,000 of this fund is to be awarded as a scholarship to a worthy student who may require financial assistance. (1959)

*The Misses Kirk Scholarship Fund*, now amounting to \$1,375, was founded in honor of the Misses Kirk by the Alumnae Association of the Kirk School in Bryn Mawr. (1929)

*The Constance Lewis and Martha Rockwell Moorhouse 1904 Memorial Scholarship Fund*, now amounting to \$17,930, was established by the Class of 1904 in memory of Constance Lewis and Martha Rockwell Moorhouse of the Class of 1904. (1920)

*The Mary Anna Longstreth Memorial Scholarship*, established by a gift of \$5,000 and carrying free tuition, was given in memory of Mary Anna Longstreth by alumnae and children of alumnae of the Mary Anna Longstreth School and by a few of her friends. (1913)

*The Lorenz-Showers Scholarship Fund* of \$3,000 was established by Justina Lorenz Showers of Dayton, Ohio, of the Class of 1907, in honor of her parents, Edmund S. Lorenz and Florence K. Lorenz, and of her husband, John Balmer Showers. (1943)

*The Evelyn Flower Morris Cope and Jacqueline Pascal Morris Evans Scholarship Fund* was established by members of their families in memory of Evelyn Flower Morris of the Class of 1903 and Jacqueline Pascal Morris of the Class of 1908. (1959)

*The Jean Brunn Mungall 1944 Memorial Fund* was established by the Class of 1944. The income is to be used for scholarships. (1955)

*The Mary McLean and Ellen A. Murter Memorial Fund*, now amounting to \$14,320, was founded in memory of her two aunts by bequest of Mary E. Stevens of Germantown, Philadelphia. By vote of the Board of Directors the income is used for an annual scholarship. (1933)

*The Frank L. Neall and Mina W. Neall Scholarship Fund* was established by a legacy of \$25,000 from the Estate of Adelaide W. Neall of the Class of 1906 in memory of her parents. The income is to be used for scholarship purposes at the discretion of the Trustees of the College. (1957)

*The Mary Frances Nunns Scholarship* was established by a bequest of \$25,000 under the will of Mary Frances Nunns. The income only is to be used. (1960)

*The Florence Morse Palmer Scholarship* was founded in memory of Florence Morse Palmer by her daughter, Jean T. Palmer of the Class of 1924, by gifts now totalling \$9,108. (1954)

*The Anna and Ethel Powers Memorial Scholarship* was established by a gift of \$1,000 in memory of Anna Powers of the Class of 1890 by her sister, Mrs. Charles Merrill Hough. The fund is now re-established at \$2,200 in memory of both Anna Powers and her sister, Mrs. Hough (Ethel Powers) by Nancy Hough Smith. (1919, 1958)

*The Amelia Richards Scholarship* was founded in memory of Amelia Richards of the Class of 1918 by bequest of \$10,000 under the will of her mother, Mrs. Frank P. Wilson. It is awarded annually by the Trustees on the nomination of the President. (1921)

*The Mary Williams Sherman Memorial Scholarship Fund*, now amounting to \$4,152, was established by bequest of Bertha Williams of Princeton, New Jersey. (1942)

*The Shippen Huidekoper Scholarship Fund* of \$5,000 was established by an anonymous gift. The income is awarded annually on the nomination of the President. (1936)

*The Anna Margaret Sloan and Mary Sloan Scholarships* were founded by bequest of Mary Sloan of Pittsburgh. The income from this fund of \$16,858 is awarded annually to students majoring in Philosophy or Psychology. (1942)

*The Cordelia Clark Sowden Scholarship Fund* was established by a bequest of \$15,000 from the Estate of Helen C. Sowden. The income from this fund is used for scholarships to be awarded by Bryn Mawr College under the rules in effect at the time of the award. (1957)

*The Summerfield Foundation Scholarship* was established by a gift from the Solon E. Summerfield Foundation. The income from this fund, which now totals \$3,000, is to be used to assist

able students who need financial help to continue their studies. (1958)

*The Mary Hamilton Swindler Scholarship* was established in honor of Mary Hamilton Swindler, Professor of Classical Archaeology from 1931 to 1949, by a group of friends and former students, by gifts totalling \$6,630. The income from this fund is used for a scholarship for the study of Archaeology at Bryn Mawr College. (1950)

*The Elizabeth Wilson White Memorial Scholarship* was founded in memory of Elizabeth Wilson White by a gift of \$7,500 by Thomas Raeburn White. It is awarded annually by the President. (1923)

*The Mary R. G. Williams Scholarship Fund* was established from the Fund for Promoting College Education for Women established by bequest of Mary R. G. Williams. The income from this fund will be used for emergency grants for students who are paying their own way through college. (1957)

*The Mary Peabody Williamson Scholarship* was founded by bequest of \$1,000 by Mary Peabody Williamson of the Class of 1903. (1939)

*The Mrs. James D. Winsor Memorial Scholarship* was established by a bequest of \$10,000 in the will of Mary Winsor, in memory of her mother. The income on this fund is to be used for a Negro student with the right of residence in the College. (1960)

*The Mary Winsor Scholarship in Archaeology* was established by a bequest of \$3,000 under the will of Mary Winsor. The income only to be used. (1960)

*The Lila M. Wright Memorial Scholarship* was founded in memory of Lila M. Wright by gifts totalling \$2,987 from the alumnae of Miss Wright's School of Bryn Mawr. (1934)

*The Georgie W. Yeatman Scholarship* was founded by bequest of \$1,000 under the will of Georgie W. Yeatman of Philadelphia. (1941)

## Prizes

The following scholarships and prizes are in the award of the Faculty and are given solely on the basis of academic merit.

*The Bryn Mawr European Fellowship*, value \$1,000, has been awarded each year since the first class was graduated in 1889. It is given for merit to a member of the graduating class, to be applied toward the expenses of one year's study at some foreign university. The holder of this fellowship receives in addition an *Elizabeth S. Shippen Scholarship for Foreign Study*.

*The Maria L. Eastman Brooke Hall Memorial Scholarship* was founded in memory of Maria L. Eastman, Principal of Brooke Hall School for Girls, Media, Pennsylvania, by gifts totalling \$3,000 from the alumnae and former pupils of the school. It is awarded annually to the member of the junior class with the highest general average and is held during the senior year. Transfer students who enter Bryn Mawr as members of the junior class are not eligible for this award. (1901)

*The Charles S. Hinchman Memorial Scholarship* was founded in memory of the late Charles S. Hinchman of Philadelphia by a gift of \$12,000 made by his family. It is awarded annually to a member of the junior class for work of special excellence in her major subject and is held during the senior year. (1917)

*The Sheelah Kilroy Memorial Scholarships* in English were founded in memory of their daughter Sheelah, by Dr. and Mrs. Philip Kilroy by a gift of \$5,000. These scholarships are awarded annually on the recommendation of the Department of English as follows: to a student for excellence of work in second-year or advanced courses in English, and to the student in the first-year course in English Composition who writes the best essay during the year. (1919)

*The Elizabeth S. Shippen Scholarships* were founded by two bequests of \$5,000 each under the will of Elizabeth S. Shippen of Philadelphia. Three scholarships are awarded annually, one to the member of the senior class who receives the Bryn Mawr European Fellowship, and two to members of the junior class, as follows: 1. *The Shippen Scholarship in Science*, to a student whose major subject is Biology, Chemistry, Geology or Physics;



2. *The Shippen Scholarship in Foreign Languages*, to one whose major subject is French, German, Greek, Italian, Latin, Russian or Spanish. To be eligible for either of these two scholarships a student must have completed at least one semester of the second-year course in her major subject. Neither may be held by the winner of the Charles S. Hinchman Memorial Scholarship. Work in elementary courses will not be considered in awarding the scholarship in foreign languages; 3. *The Shippen Scholarship for Foreign Study* (See European Fellowship, page 126). (1915)

*The Elizabeth Duane Gillespie Fund for Scholarships in American History* was founded by a gift of \$1,500 from the National Society of Colonial Dames of America in the Commonwealth of Pennsylvania in memory of Elizabeth Duane Gillespie. Two prizes are awarded annually on nomination by the Department of History, one to a member of the sophomore or junior class for work of distinction in American History, a second to a student doing advanced work in American History for an essay written in connection with that work. The income from this Fund has been supplemented since 1955 by an annual gift from the Pennsylvania Society of the Colonial Dames. (1903)

*The Helen Taft Manning Essay Prize in History* was established in honor of Helen Taft Manning, in the year of her retirement, by her class—1915. The income on a fund of \$2,600 is to be awarded as the Department of History may determine. (1957)

*The Academy of American Poets Poetry Prize* of \$100 will be awarded each year for five years to the student who submits to the Department of English the best poem or group of poems. The Award, first made in 1957, was given by the Academy of American Poets.

*The Bain-Swiggett Poetry Prize* was established by a gift of \$1,000 from Mr. and Mrs. Glen Levin Swiggett. This prize is to be awarded annually by a committee of the Faculty on the basis of work submitted for the award. The income only is to be used. (1958)

*The Hester Ann Corner Prize* for distinction in literature was established in memory of Hester Ann Corner of the Class of 1942 by gifts totalling \$2,125 from her classmates and friends. The award is made every second year to a junior or senior on the recommendation of a committee composed of the chairmen of the Departments of English and of classical and modern foreign languages. Awarded in 1959. (1950)

*The Katherine Fullerton Gerould Memorial Prize* was founded by a gift of \$1,300 from a group of alumnae, many of whom were students of Mrs. Gerould when she taught at Bryn Mawr from 1901-1910. It is awarded by a special committee to a student who shows evidence of creative ability in the fields of informal essay, short story, longer narrative or verse. (1946)

*The M. Carey Thomas Essay Prize* is awarded annually to a member of the senior class for distinction in writing. The award is made by the Department of English for either creative or critical writing. It was established in memory of Miss Thomas by her niece, Millicent Carey McIntosh of the Class of 1920. (1943)

*The Jeanne Quistgaard Memorial Prize* was given by the Class of 1938 in memory of their classmate, Jeanne Quistgaard. The income on this fund of \$498 may be awarded every two years to a student in Economics. Awarded in 1959. (1938)

*The Esther Walker Award* was founded by the bequest of \$1,000 from William John Walker in memory of his sister, Esther Walker, of the Class of 1910. It may be given annually to a member of the senior class who in the judgment of the Faculty shall have displayed the greatest proficiency in the study of living conditions of Northern Negroes. (1940)

## Scholarships for Medical Study

The following scholarships may be awarded to seniors intending to study medicine, after their acceptance by a medical school, or to graduates of Bryn Mawr intending or continuing to pursue medical education. Applications for the scholarships should be made to the Dean of the College before April 15 preceding the academic year in which the scholarship is to be held. Applications for renewal of scholarships must be accompanied by letters of recommendation from instructors in the medical school.

*The Linda B. Lange Fund* was founded by bequest of \$30,000 under the will of Linda B. Lange of the Class of 1903. The income from this fund will provide the Anna Howard Shaw Scholarship in Medicine and Public Health, awarded on recommendation of the President and Faculty to a member of the graduating class or a graduate of the College for the pursuit, during an uninterrupted succession of years, of studies leading to the degrees of M.D. and Doctor of Public Health. The award may be continued until the degrees are obtained. (1948)

*The Hannah E. Longshore Memorial Medical Scholarship* was founded by Mrs. Rudolph Blankenburg in memory of her mother by a gift of \$10,000. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school and may be renewed for each year of medical study. (1921)

*The Jane V. Myers Memorial Medical Scholarship Fund* of \$10,000 was established by Mrs. Rudolph Blankenburg in memory of her aunt. The scholarship is awarded by a committee of the Faculty to a student who has been accepted by a medical school. It may be renewed for each year of medical study. (1921)

*The Harriet Judd Sartain Memorial Scholarship Fund* was founded by bequest of \$21,013 under the will of Paul J. Sartain. The income from this fund is to establish a scholarship which is awarded to a member of the graduating class who in the judgment of the Faculty needs and is deserving of assistance for the study of medicine. This scholarship may be continued for the duration of her medical course. (1948)

# Loan Funds and Student Employment

*The Students' Loan Fund of the Alumnae Association of Bryn Mawr College* was founded by the Class of 1890 for the use of students who need to borrow money in order to continue their college work and for the purpose of receiving contributions, no matter how small, from those who are interested in helping students to obtain an education. The fund is managed by the Alumnae Scholarships and Loan Fund Committee.

The committee in administering this money follows a definite policy designed to serve the best interests of the students concerned. Loans may be used for any purpose approved by the committee, but not more than \$500 may be borrowed by a student in any one year, except under extraordinary circumstances. The total for four years must not exceed \$1,500. Students who wish loans may obtain from the Dean or the Alumnae Office, on the second floor of the Deanery, the necessary blanks, which must be accompanied by a letter of recommendation from the Dean. As a rule, money is not loaned to freshmen or to students in their first semester of graduate work. Applications, except in cases of emergency, must be filed before September 10. Approximately a month is required for action on applications.

The terms under which money is loaned are as liberal as is consistent with business-like principles. While the student is in college no interest is charged, but she may reduce the principal of the loan if she so desires; after the student leaves college, the interest rate is two per cent. The entire principal must be repaid within five years from the time the student leaves college at the rate of twenty per cent each year.

Contributions to the Loan Fund may be sent to the Chairman of Scholarships and Loan Fund, Bryn Mawr College Alumnae Association, Bryn Mawr, Pennsylvania.

*The Mary Hill Swope Loan Fund* was established June 1, 1945, by a gift of the late Mrs. Gerard Swope (Mary Hill, A.B. 1896) under the following conditions:

To assist in the education of young women irrespective of color or creed attending Bryn Mawr College, the income of the fund to be loaned to students in the following manner:

1. The following order of preference shall be followed in awarding such loans: a. to students coming from New Jersey, b. to students coming from Missouri, c. to students coming from any other location who have had not less than one year residence at the College.

2. The loans in the above order of preference, and in the following manner, shall be awarded by the President of Bryn Mawr College, or by a committee appointed by her from time to time.

3. Applicants for loans shall be considered not only from the standpoint of academic attainment and financial need, but also from the standpoint of character and personal qualifications for deriving the greatest good from a continuation of their studies.

4. These loans shall be used primarily to enable the exceptional student to continue her studies, which otherwise would be prevented through lack of means.

5. In the awarding of the loans, the recipient should understand that if in after years she is in a position to do so, she is to repay to the income account of the Loan Fund the amount so loaned to her, with or without interest. It is to be understood that this is entirely a moral obligation upon the recipient.

## STUDENT EMPLOYMENT

Students may obtain employment such as clerical and library work, typing, reading aloud, child care and waiting on table through the Bureau of Recommendations, Taylor Hall. In conducting this Bureau, the College offers an employment service for permanent, temporary and part-time positions to its alumnae and former students as well as to those in college. It also offers to students a vocational service, which includes vocational tests and assistance in choosing a vocation. Students registering with the Bureau will be informed of openings in the kind of work they have requested.

The Bureau also acts as a clearing house for letters of recommendation for its registrants; these letters will be sent upon request, to prospective employers and other agencies for summer work for undergraduates or for full or part-time employment for alumnae and former students.

*Students of foreign citizenship wishing employment should consult the Adviser to Foreign Students whose office is in the Library.*

# Alumnae Representatives

*All Alumnae officers and representatives will be glad to give general information about the College.*

*Specific questions in regard to admissions or scholarships should be directed to the Office of Admissions, Bryn Mawr College, Bryn Mawr, Penna.*

## Officers of the Alumnae Association

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# Academic Schedule

## 1960-1961

### FIRST SEMESTER

1960

- September* 28. Graduate Center opens to resident graduate students
- September* 29. Halls of residence open to entering class at 8 A.M.  
Registration of entering undergraduate students  
Final date for filing application for admission to the Graduate School  
Registration period for graduate students begins  
Deferred, condition and auditors' examinations begin
- October* 1. Deferred, condition and auditors' examinations end  
Halls of residence open to all returning undergraduate students at 8 P.M.
- October* 2. Registration of returning undergraduate students with Comptroller's Office
- October* 3. Work of the 76th academic year begins at 8:45 A.M.
- October* 5. Hygiene exemption examination for Freshmen at 7:30 P.M.
- October* 6. Registration period for graduate students ends
- October* 22. Russian examinations for undergraduates, M.A. and Ph.D. candidates  
Greek and Latin examinations for undergraduates
- October* 29. French examinations for undergraduates, M.A. and Ph.D. candidates
- November* 5. Spanish and Italian examinations for undergraduates, M.A. and Ph.D. candidates  
Statistics examinations for M.A. candidates



- November* 12. German examinations for undergraduates, M.A. and Ph.D. candidates
- November* 16. Hygiene examination at 7:30 P.M.
- November* 23. Thanksgiving holiday begins after last class
- November* 28. Thanksgiving holiday ends at 9 A.M.
- December* 16. Christmas vacation begins at 12:45 P.M.

1961

- January* 3. Christmas vacation ends at 9 A.M.
- January* 7. Russian examinations for Seniors conditioned, M.A. and Ph.D. candidates  
Greek and Latin examinations for Seniors conditioned
- January* 14. French examinations for Seniors conditioned, M.A. and Ph.D. candidates
- January* 20. Last day of lectures
- January* 21. Spanish and Italian examinations for Seniors conditioned, M.A. and Ph.D. candidates  
Statistics examinations for M.A. candidates
- January* 23. Collegiate examinations begin
- January* 28. German examinations for Seniors conditioned, M.A. and Ph.D. candidates
- February* 1. Registration period for graduate students begins
- February* 2. Collegiate examinations end

## SECOND SEMESTER

- February* 6. Work of the second semester begins at 8:45 A.M.
- February* 8. Registration period for graduate students ends
- March* 24. Spring vacation begins after last class
- April* 4. Spring vacation ends at 9 A.M.  
Deferred examinations begin

- April* 8. Russian examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1962  
Greek and Latin examinations for undergraduates  
Deferred examinations end
- April* 10. Ph.D. dissertations in all fields except experimental science and mathematics must be submitted to Graduate School office
- April* 15. French examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1962
- April* 22. Spanish and Italian examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1962  
Statistics examinations for M.A. candidates for 1962
- April* 29. German examinations for undergraduates, Ph.D. candidates, and M.A. candidates for 1962
- May* 1. Ph.D. dissertations in experimental science and mathematics must be submitted to Graduate School office
- May* 6. Geology field trip
- May* 19. Last day of lectures
- May* 22. Collegiate examinations begin
- June* 2. Collegiate examinations end
- June* 6. Conferring of degrees and close of the 76th academic year
- June* 10. Alumnae Day

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## How to Get to Bryn Mawr

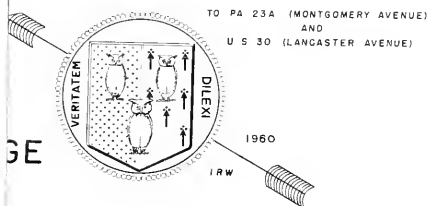
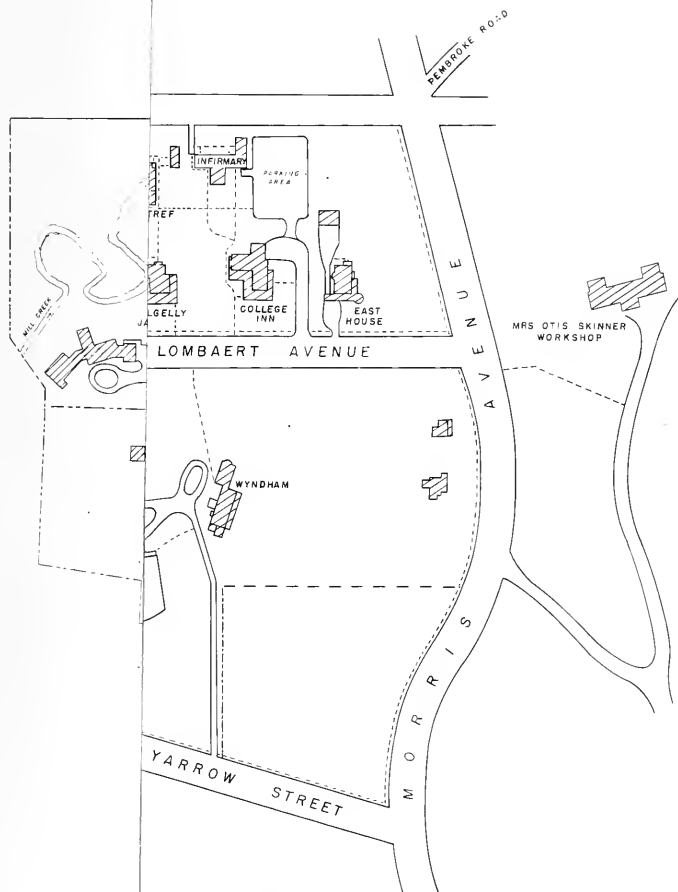
Bryn Mawr College is located approximately eleven miles west of Philadelphia and nine miles east of Paoli.

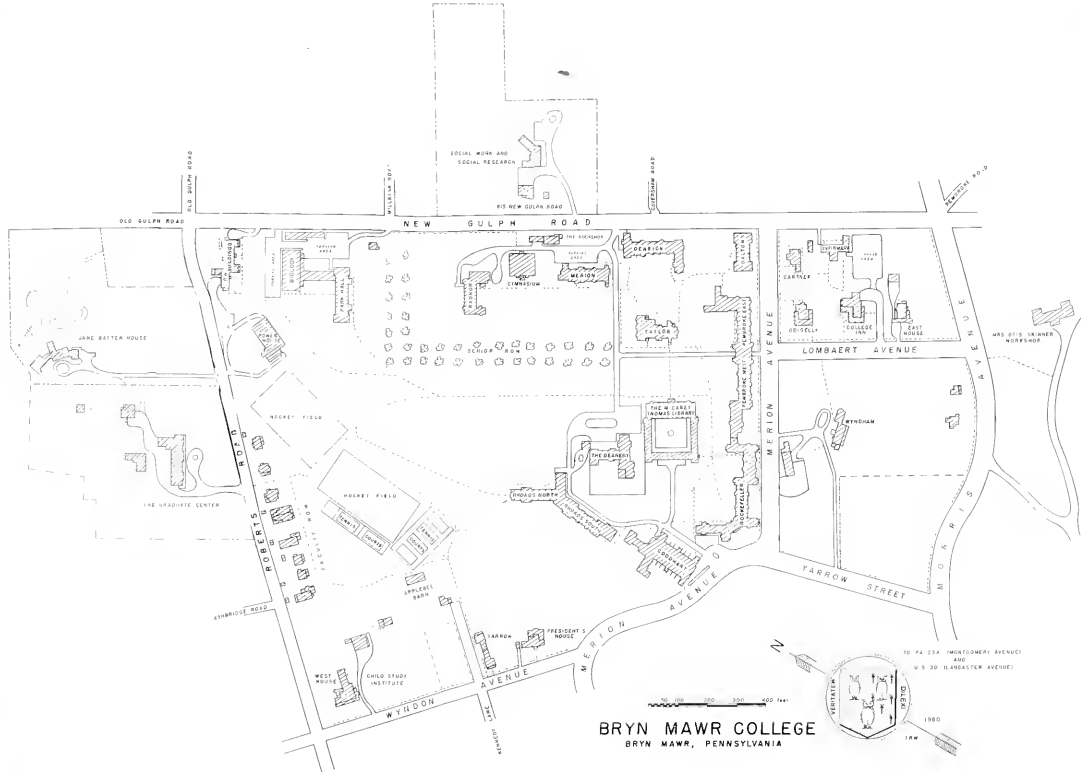
By railroad: Connections from the east, north and south are best made from 30th Street Station, Philadelphia, on the Paoli Local of the Pennsylvania Railroad, which leaves the station every thirty minutes. Those coming by rail from the west are advised to leave the train at Paoli (rather than North Philadelphia) and take the Local from Paoli to Bryn Mawr.

To walk to the College from the Bryn Mawr Station, go one block to the traffic light at the intersection of Morris and Montgomery Avenues, cross Montgomery on to Morris and take the next left on to Yarrow Street, which leads directly to the campus.

By automobile: From the east or west take U. S. 30 or the Pennsylvania Turnpike. From the Valley Forge Exit of the Turnpike, take the Schuylkill Expressway (Pa. #43), turning right at Pa. #23, which is 3.5 miles east of the toll gate; continue into Alternate #23 (Montgomery Avenue) which leads directly into the town of Bryn Mawr, a distance of 4 miles from the Expressway. Turn left at the traffic light at the intersection of Morris and Montgomery Avenues.

By air: From the Philadelphia International Airport take the airport limousine to Philadelphia and the Paoli Local to Bryn Mawr or take a taxi directly to Bryn Mawr from the airport, a distance of 14 miles.









**BRYN MAWR**











